

Median/Single RBA Values for Substances Tested in Two or More In Vitro ER Binding Assays

Substance	CASRN	RUC		hER α		hER α -FP		hER β		rER β		GST-aERdef		GST-cERdef	
		RBA	n	RBA	n	RBA	n	RBA	n	RBA	n	RBA	n	RBA	n
Alachlor	15972-60-8	neg (100)	(1)	neg (50)	(1)										
4- <i>tert</i> -Amylphenol	80-46-6	0.0005	(1)	neg (10)	(1)			neg (10)	(1)						
3 β -Androstane-3,17-diol	25126-76-5			3	(1)					7	(1)				
5-Androstane-3,17 β -diol	1852-53-5	0.002	(1)												
5-Androstane-3,17 α -diol	571-20-0	0.12	(1)	0.07	(1)					0.3	(1)				
5 β -Androstane-3,17-dione	5982-99-0			neg (100)	(1)					neg (100)	(1)				
5 β -Androstane-3,17-dione	1229-12-5			neg (100)	(1)					neg (100)	(1)				
4-Androstenediol	1156-92-9			0.5	(1)					0.6	(1)				
5-Androstenediol	521-17-5			3.9	(3)			14.1	(2)	17	(1)				
4-Androstenedione	63-05-8			neg (100)	(1)					neg (100)	(1)				
Apigenin	520-36-5	0.028	(1)	0.3	(1)			4	(2)						
Atrazine	1912-24-9	0.0003	(1/2)			neg (2000)	(1)					neg (100)	(1)	neg (100)	(1)
Benz[<i>a</i>]anthracene	56-55-3							neg (10)	(1)						
Benzeneacetonitrile, -bis(4-hydroxyphenyl)methylene	66422-14-8														
Benzo[<i>a</i>]carbazole	239-01-0							neg (10)	(1)						
Benzo[<i>c</i>]carbazole								neg (10)	(1)						
Benzo[<i>b</i>]fluorene	243-17-4							neg (10)	(1)						
Benzo[<i>b</i>]naphtho[2,1- <i>d</i>]thiophene	239-35-0							neg (10)	(1)						
Benzo[<i>b</i>]naphtho[2,3- <i>d</i>]thiophene	243-46-9							neg (10)	(1)						
Benzo[<i>c</i>]phenanthrene	195-19-7							neg (10)	(1)						
Biochanin A	491-80-5	0.0043	(1)	neg (10)	(1)			neg (10)	(1)						
3,4-Bis(3-hydroxyphenyl)hexane	68266-24-0														
2,2-Bis(<i>p</i> -hydroxyphenyl)-1,1,1 trichloroethane	2971-36-0	0.754	(3)	0.4	(1)	1.7	(1)	2	(1)			4.80	(1)	4.8	(1)
Bisphenol A	80-05-7	0.056	(5)	0.01	(3)	0.25	(2)	0.0365	(2)	0.33	(1)	0.13	(1)	0.044	(1)
Bisphenol A diglycidyl ether dimethacrylate	1565-94-2	neg (200)	(2)			neg (5000)	(1)								
Bisphenol A dimethacrylate	3253-39-2	0.017	(2)												
Bisphenol C 2	14868-03-2	2.64	(1)												
16- β -Bromo-17 β -estradiol	54982-79-5			65	(2)			13.4	(2)						
1,3-Butanediol, 4-[4-(1,2,3,4-tetrahydro-6-hydroxy-2-phenyl-1-naphthalenyl)phenoxy]-	107144-85-4														
1,3-Butanediol, 4-[4-[1,2,3,4-tetrahydro-6-methoxy-2-phenyl 1-naphthenyl)phenoxy]-	107163-56-4														
Butyl benzyl phthalate	85-68-7	0.0017	(2/5)			0.0061	(2)					neg (100)	(1)	neg (100)	(1)
4- <i>tert</i> -Butylphenol	98-54-4	0.0009	(2)	neg (10)	(1)			neg (10)	(1)						
2-Chloro-4-biphenylol	23719-22-4	0.002	(1)												
4-Chloro-4'-biphenylol	28034-99-3	0.007	(1)												

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Substance	CASRN	GST-hER α def		GST-mER α def		GST-rtERdef		MCF-7 cells		MCF-7 cytosol		MUC		RBC	
		RBA	n	RBA	n	RBA	n	RBA	n	RBA	n	RBA	n	RBA	n
Alachlor	15972-60-8														
4- <i>tert</i> -Amylphenol	80-46-6														
3 β -Androstenediol	25126-76-5														
5 -Androstane-3 ,17 β -diol	1852-53-5									neg (0.1)	(1)	neg (10)	(1)		
5 -Androstane-3 ,17 -diol	571-20-0									0.005	(1)	0.5	(1)		
5 β -Androstane-3,17-dione	5982-99-0											neg (10)	(1)		
5 β -Androstenedione	1229-12-5														
4-Androstenediol	1156-92-9														
5-Androstenediol	521-17-5													1	(1)
4-Androstenedione	63-05-8									0.007	(1)	neg (10)	(1)		
Apigenin	520-36-5														
Atrazine	1912-24-9	neg (100)	(1)	neg (100)	(1)	neg (100)	(1)								
Benz[<i>a</i>]anthracene	56-55-3	neg (10)	(1)					33	(1)						
Benzeneacetonitrile, -bis(4-hydroxyphenyl)methylene	66422-14-8							8.5	(1)	100	(1)				
Benzo[<i>a</i>]carbazole	239-01-0	neg (10)	(1)												
Benzo[<i>c</i>]carbazole		neg (10)	(1)												
Benzo[<i>b</i>]fluorene	243-17-4	neg (10)	(1)												
Benzo[<i>b</i>]naphtho[2,1- <i>d</i>]thiophene	239-35-0	neg (10)	(1)												
Benzo[<i>b</i>]naphtho[2,3- <i>d</i>]thiophene	243-46-9	neg (10)	(1)												
Benzo[<i>c</i>]phenanthrene	195-19-7	neg (10)	(1)												
Biochanin A	491-80-5														
3,4-Bis(3-hydroxyphenyl)hexane	68266-24-0							20	(1)	10	(1)				
2,2-Bis(<i>p</i> -hydroxyphenyl)-1,1,1 trichlorethane	2971-36-0	1.2	(1)	1.2	(1)	14	(1)					1.2	(1)		
Bisphenol A	80-05-7	0.008	(1)	0.0086	(1)	0.21	(1)	0.006	(1)	1	(1)	0.0115	(1)	0.0013	(1)
Bisphenol A diglycidyl ether dimethacrylate	1565-94-2														
Bisphenol A dimethacrylate	3253-39-2													0.00047	(1)
Bisphenol C 2	14868-03-2							0.3	(1)	2	(1)				
16 -Bromo-17 β -estradiol	54982-79-5														
1,3-Butanediol, 4-[4-(1,2,3,4-tetrahydro-6-hydroxy-2-phenyl-1-naphthalenyl)phenoxy]-	107144-85-4							7	(1)	30	(1)				
1,3-Butanediol, 4-[4-[1,2,3,4-tetrahydro-6-methoxy-2-phenyl 1-naphthenyl)phenoxy]-	107163-56-4							0.06	(1)	0.1	(1)				
Butyl benzyl phthalate	85-68-7	neg (100)	(1)	neg (100)	(1)	neg (100)	(1)							neg (100)	(1)
4- <i>tert</i> -Butylphenol	98-54-4														
2-Chloro-4-biphenylol	23719-22-4											0.04	(1)		
4-Chloro-4'-biphenylol	28034-99-3											0.0365	(2)		

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Substance	CASRN	RUC		hER α		hER α -FP		hER β		rER β		GST-aERdef		GST-cERdef	
		RBA	n	RBA	n	RBA	n	RBA	n	RBA	n	RBA	n	RBA	n
11 -Chloromethylestradiol	71794-60-0														
Chrysene	218-01-9	neg (10)	(1)					neg (10)	(1)						
Chrysin	480-40-0	neg (100)	(1)	neg (10)	(1)			neg (10)	(1)						
<i>trans</i> -Clomiphene	911-45-5			25	(1)					12	(1)				
Corticosterone	50-22-6	neg (100)	(1)	neg (100)	(1)					neg (100)	(1)				
Coumestrol	479-13-0	1.86	(2)	34	(3)	12	(1)	120	(2)	185	(1)	3.1	(1)	0.7	(1)
Cyclofenil diphenol	5189-40-2														
Daidzein	486-66-8	0.023	(1)	0.1	(3)	0.2	(1)	1	(3)						
<i>o,p'</i> -DDD	53-19-0	0.009	(1/2)	neg (50)	(2)			neg (10)	(1)						
<i>p,p'</i> -DDD	72-54-8	0.0003	(1/3)	0.009	(1/2)			neg (10)	(1)						
<i>o,p'</i> -DDE	3424-82-6	0.0009	(1/2)	neg (10)	(1)			neg (10)	(1)			neg (100)	(1)	neg (100)	(1)
<i>p,p'</i> -DDE	72-55-9	0.0003	(1/3)	neg (10)	(1)			neg (10)	(1)			neg (100)	(1)	neg (100)	(1)
<i>o,p'</i> -DDT	789-02-6	0.013	(5)	0.055	(2)	0.4	(1)	0.02	(1)			neg (100)	(1)	0.086	(1)
(-)- <i>o,p'</i> -DDT	58633-26-4	0.029	(1)												
(+)- <i>o,p'</i> -DDT	58633-27-5	neg (20)	(1)												
<i>p,p'</i> -DDT	50-29-3	0.0003	(1/3)	neg (10)	(1)	0.041	(1)	neg (10)	(1)			neg (100)	(1)	neg (100)	(1)
Dehydroepiandrosterone	53-43-0			0.04	(1)					0.07	(1)	neg (100)	(1)	neg (100)	(1)
3-Deoxyestradiol	2529-64-8	0.5	(1)												
3-Deoxyestradiol	2529-64-8														
17-Desoxyestradiol	53-63-4	18.16	(3)												
17-Desoxyestradiol	53-63-4	18.2	(3)												
Dibutyl phthalate	84-74-2	0.0027	(1)			neg (5000)	(1)								
Dibutyl benzyl phthalate												neg (100)	(1)	neg (100)	(1)
2',5'-Dichloro-4-biphenylol	53905-28-5	0.036	(1)	0.033	(1)										
Dieldrin	60-57-1	neg (100)	(2)	neg (10)	(1)	0.0005	(1)								
Dienestrol	84-17-3	37.5	(1)	223	(1)					404	(1)				
Diethylhexyl phthalate	117-81-7	neg (1000)	(2)			neg (5000)	(1)								
Diethylstilbestrol	56-53-1	200	(11)	236	(3)	124	(4)	160.5	(2)	295	(1)	107	(1)	130	(1)
3,3'-Diethylstilbestrol	5959-71-7														
(<i>rac</i>) -5,11-Diethyl-5,6,11,12-tetrahydrochrysene-2,8-diol				14	(1)			67	(1)						
5,11- <i>trans</i> -Diethyl-5,6,11,12-tetrahydrochrysene-2,8-diol				221	(1)			432	(1)						
(<i>5R</i> ,11 <i>R</i>) -5,11-Diethyl-5,6,11,12-tetrahydrochrysene-2,8-diol				23	(1)			144	(1)						
(<i>5S</i> ,11 <i>S</i>) -5,11-Diethyl-5,6,11,12-tetrahydrochrysene-2,8-diol				0.9	(1)			14	(1)						
Dihydrogenistein				0.143	(1)			18.5	(1)						
5 -Dihydrotestosterone	521-18-6	0.0135	(2)	0.05	(1)	0.0095	(1)			0.17	(1)	0.38	(1)	0.0085	(1)
4,4'-Dihydroxybiphenyl	92-88-6			neg (10)	(1)			0.03	(1)						
, -Dimethylstilbestrol	552-80-7	14.5	(1)												

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Substance	CASRN	GST-hER α def		GST-mER α def		GST-rtERdef		MCF-7 cells		MCF-7 cytosol		MUC		RBC	
		RBA	n	RBA	n	RBA	n	RBA	n	RBA	n	RBA	n	RBA	n
11 -Chloromethylestradiol	71794-60-0							96	(1)	100	(1)				
Chrysene	218-01-9	neg (10)	(1)					13	(1)						
Chrysin	480-40-0														
<i>trans</i> -Clomiphene	911-45-5													0.0081	(1)
Corticosterone	50-22-6														
Coumestrol	479-13-0	0.81	(1)	0.33	(1)	0.24	(1)	12	(1)	13	(1)				
Cyclofenil diphenol	5189-40-2							0.5	(1)	5	(1)				
Daidzein	486-66-8														
<i>o,p'</i> -DDD	53-19-0														
<i>p,p'</i> -DDD	72-54-8														
<i>o,p'</i> -DDE	3424-82-6	neg (100)	(1)	neg (100)	(1)	0.11	(1)								
<i>p,p'</i> -DDE	72-55-9	neg (100)	(1)	neg (100)	(1)	0.042	(1)							neg (100)	(1)
<i>o,p'</i> -DDT	789-02-6	neg (100)	(1)	0.0073	(1)	0.43	(1)			0.0003	(1)	0.21	(1)	0.00059	(1)
(-)- <i>o,p'</i> -DDT	58633-26-4							0.013	(1)						
(+)- <i>o,p'</i> -DDT	58633-27-5							0.0001	(1)						
<i>p,p'</i> -DDT	50-29-3	neg (100)	(1)	neg (100)	(1)	0.165	(1)								
Dehydroepiandrosterone	53-43-0	neg (100)	(1)	neg (100)	(1)	0.028	(1)								
3-Deoxyestradiol	2529-64-8							0.6	(1)	8	(1)				
3-Deoxyestradiol	2529-64-8							0.6	(1)	8	(1)				
17-Desoxyestradiol	53-63-4							0.5	(1)	40	(1)				
17-Desoxyestradiol	53-63-4							0.5	(1)	40	(1)				
Dibutyl phthalate	84-74-2													neg (100)	(1)
Dibutyl benzyl phthalate		neg (100)	(1)	neg (100)	(1)	0.2	(1)								
2',5'-Dichloro-4-biphenylol	53905-28-5											0.459	(2)		
Dieldrin	60-57-1											neg (10)	(1)		
Dienestrol	84-17-3														
Diethylhexyl phthalate	117-81-7														
Diethylstilbestrol	56-53-1	91	(1)	84	(1)	165	(1)	84	(1)	100	(2)	113	(7)	1551.5	(2)
3,3'-Diethylstilbestrol	5959-71-7							17.5	(1)	3	(1)				
(<i>rac</i>) -5,11-Diethyl-5,6,11,12-tetrahydrochrysene-2,8-diol															
5,11- <i>trans</i> -Diethyl-5,6,11,12-tetrahydrochrysene-2,8-diol															
(<i>5R</i> ,11 <i>R</i>) -5,11-Diethyl-5,6,11,12-tetrahydrochrysene-2,8-diol															
(<i>5S</i> ,11 <i>S</i>) -5,11-Diethyl-5,6,11,12-tetrahydrochrysene-2,8-diol															
Dihydrogenistein															
5 -Dihydrotestosterone	521-18-6	0.049	(1)	0.04	(1)	0.034	(1)					neg (10)	(1)		
4,4'-Dihydroxybiphenyl	92-88-6											neg (5)	(1)		
, -Dimethylstilbestrol	552-80-7													129	(1)

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		RBA	n	RBA	n	RBA	n	RBA	n	RBA	n	RBA	n	RBA	n
5,11- <i>trans</i> -Dimethyl-5,6,11,12-tetrahydrochrysene-2,8-diol				222	(1)			254	(1)						
(5 <i>R</i> ,11 <i>R</i>)-5,11-Dimethyl-5,6,11,12-tetrahydrochrysene-2,8-diol				24	(1)			76	(1)						
(5 <i>S</i> ,11 <i>S</i>)-5,11-Dimethyl-5,6,11,12-tetrahydrochrysene-2,8-diol				9.3	(1)			75	(1)						
Phenol, 4-(1, 2-diphenyl-1-butenyl)-	69967-79-9														
Phenol, 4-(1 <i>Z</i>) 1-2-diphenyl-1-butenyl)-	69967-80-2														
5,11- <i>trans</i> -Dipropyl-5,6,11,12-tetrahydrochrysene-2,8-diol				33.6	(1)			92.3	(1)						
(5 <i>R</i> ,11 <i>R</i>)-5,11-Dipropyl-5,6,11,12-tetrahydrochrysene-2,8-diol				5.2	(1)			26	(1)						
(5 <i>S</i> ,11 <i>S</i>)-5,11-Dipropyl-5,6,11,12-tetrahydrochrysene-2,8-diol				1.6	(1)			5.1	(1)						
Droloxifene	82413-20-5	15.2	(1)												
,-Endosulfan	115-29-7	0.00044	(1/2)	neg (10)	(1)			neg (10)	(1)						
-Endosulfan	959-98-8			neg (10)	(1)							neg (100)	(1)	neg (100)	(1)
-Endosulfan	33213-65-9			neg (10)	(1)							neg (100)	(1)	neg (100)	(1)
17-Epiestriol	1228-72-4			29.0	(1)			80	(1)						
Equol	531-95-3	0.15	(1)	0.33	(1)			58.8	(1)						
16 -Estradiol	1090-04-6														
17 -Estradiol	57-91-0	26.5	(2)	32.5	(2)			2	(1)	11	(1)				
Estradiol 3-benzoate	50-50-0											13	(1)	15	(1)
17 -Estradiol 3-methyl ether	1035-77-4	0.7	(1)												
9-Estratetraene-3,17 -diol	791-69-5														
Estra-1,3,5(10)-triene-3,17 -diol, 14,15 -epoxy-	79581-12-7														
Estra-1,3,5(10)-triene-3,17 -diol, 14 ,15 -epoxy-	79645-49-1														
Estra-1,3,5,(10),trien-3,14,17 -triol	16288-09-8														
Estriol	50-27-1	14.4	(2)	14	(1)					21	(1)	30	(1)	11	(1)
Estrone	53-16-7	48	(4)	60	(1)	2.1	(1)			37	(1)	60	(1)	50	(1)
Estrone 3-sulfate	481-97-0			neg (100)	(1)					neg (100)	(1)				
17 -Ethinyl estradiol	57-63-6	173	(4)									139	(1)	171	(1)
Flavone	525-82-6	neg (100)	(1)	neg (10)	(1)			neg (10)	(1)						
Formononetin	485-72-3	0.0013	(1)	neg (10)	(1)			neg (10)	(1)						
Genistein	446-72-0	0.56	(2)	2.36	(4)	1.6	(1)	13	(3)	36	(1)	1.3	(1)	0.78	(1)
Genistin	529-59-9	neg (100)	(1)					0.014	(1)						
Glycitein	40957-83-3			0.016	(1)			0.91	(1)						
2,2',3,3',4',5,6-Heptachlorobiphenyl	52663-70-4											neg (10)	(1)		
2,2',3,3',4,5,6,-Heptachlorobiphenyl	68194-16-1											neg (10)	(1)		
2,2',3,3',5,5',6-Heptachlorobiphenyl	52663-64-6											neg (10)	(1)		
2,2',3,4,4',5',6-Heptachlorobiphenyl	52663-69-1											neg (10)	(1)		
2,2',3,4,4',6,6'-Heptachlorobiphenyl	74472-48-3											0.025	(1)		

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		RBA	n	RBA	n	RBA	n	RBA	n	RBA	n	RBA	n	RBA	n
5,11- <i>trans</i> -Dimethyl-5,6,11,12-tetrahydrochrysen-2,8-diol															
(5 <i>R</i> ,11 <i>R</i>)-5,11-Dimethyl-5,6,11,12-tetrahydrochrysen-2,8-diol															
(5 <i>S</i> ,11 <i>S</i>)-5,11-Dimethyl-5,6,11,12-tetrahydrochrysen-2,8-diol															
Phenol, 4-(1, 2-diphenyl-1-butenyl)-	69967-79-9							2	(1)	15	(1)				
Phenol, 4-(1 <i>Z</i>) 1-2-diphenyl-1-butenyl)-	69967-80-2							0.4	(1)	1	(1)				
5,11- <i>trans</i> -Dipropyl-5,6,11,12-tetrahydrochrysen-2,8-diol															
(5 <i>R</i> ,11 <i>R</i>)-5,11-Dipropyl-5,6,11,12-tetrahydrochrysen-2,8-diol															
(5 <i>S</i> ,11 <i>S</i>)-5,11-Dipropyl-5,6,11,12-tetrahydrochrysen-2,8-diol															
Droloxifene	82413-20-5							0.2	(1)	2.5	(1)				
, -Endosulfan	115-29-7											neg (5)	(1)	neg (100)	(1)
-Endosulfan	959-98-8	neg (100)	(1)	neg (100)	(1)	0.012	(1)								
-Endosulfan	33213-65-9	neg (100)	(1)	neg (100)	(1)	neg (100)	(1)			0.00024	(1)				
17-Epiestriol	1228-72-4														
Equol	531-95-3														
16 -Estradiol	1090-04-6									17.9	(2)			66	(1)
17 -Estradiol	57-91-0									0.22	(1)	1000	(1)	49	(1)
Estradiol 3-benzoate	50-50-0	10	(1)	12	(1)	9	(1)								
17 -Estradiol 3-methyl ether	1035-77-4													3	(1)
9-Estratetraene-3,17 -diol	791-69-5							37	(1)	80	(1)				
Estra-1,3,5(10)-triene-3,17 -diol, 14,15 -epoxy-	79581-12-7							10	(1)	5	(1)				
Estra-1,3,5(10)-triene-3,17 -diol, 14 ,15 -epoxy-	79645-49-1							0.08	(1)	neg (0.1)	(1)				
Estra-1,3,5,(10),trien-3,14,17 -triol	16288-09-8							1.5	(1)	2	(1)				
Estriol	50-27-1	28	(1)	13	(1)	3.7	(1)	20	(1)	13	(3)	100	(1)	16	(1)
Estrone	53-16-7	45	(1)	28	(1)	14	(1)	19	(1)	13	(3)	100	(1)	66	(1)
Estrone 3-sulfate	481-97-0														
17 -Ethinyl estradiol	57-63-6	127	(1)	118	(1)	108	(1)							191	(1)
Flavone	525-82-6														
Formononetin	485-72-3														
Genistein	446-72-0	0.46	(1)	0.33	(1)	0.44	(1)			2.31	(2)				
Genistin	529-59-9														
Glycitein	40957-83-3														
2,2',3,3',4',5,6-Heptachlorobiphenyl	52663-70-4	neg (10)	(1)			0.031	(1)								
2,2',3,3',4,5,6,-Heptachlorobiphenyl	68194-16-1	neg (10)	(1)			0.031	(1)								
2,2',3,3',5,5',6-Heptachlorobiphenyl	52663-64-6	neg (10)	(1)			neg (10)	(1)								
2,2',3,4,4',5',6-Heptachlorobiphenyl	52663-69-1	neg (10)	(1)			neg (10)	(1)								
2,2',3,4,4',6,6'-Heptachlorobiphenyl	74472-48-3	0.024	(1)			0.78	(1)								

Median/Single RBA Values for Substances Tested in Two or More In Vitro ER Binding Assays

Substance	CASRN	RUC		hER α		hER α -FP		hER β		rER β		GST-aERdef		GST-cERdef	
		RBA	n	RBA	n	RBA	n	RBA	n	RBA	n	RBA	n	RBA	n
2,2',3,4',5,5',6-Heptachlorobiphenyl	52663-68-0											neg (10)	(1)		
2,2',3,4',5,6,6'-Heptachlorobiphenyl	74487-85-7											0.025	(1)		
2,3,3',4,4',5,6-Heptachlorobiphenyl	41411-64-7											neg (10)	(1)		
2,3,3',4',5,5',6-Heptachlorobiphenyl	69782-91-8											neg (10)	(1)		
2,2',3,3',4',5,5'-Heptachloro-4-biphenylol	158076-64-3			0.1	(1)			0.1	(1)			neg (10)	(1)		
2,2',3',4,4',5,5'-Heptachloro-3-biphenylol	158076-69-8			0.09	(2)			0.1	(2)			neg (10)	(1)		
2,2',3,4',5,5',6-Heptachloro-4-biphenylol	158076-68-7			0.1	(1)			0.1	(1)			neg (10)	(1)		
2,2',3,3',4,4'-Hexachlorobiphenyl	38380-07-3											neg (10)	(1)		
2,2',3,4,4',5'-Hexachlorobiphenyl	35065-28-2											neg (10)	(1)		
2,2',3,4',5',6'-Hexachlorobiphenyl	38380-04-0											neg (10)	(1)		
2,2',3,4,5,6'-Hexachlorobiphenyl	68194-15-0											neg (10)	(1)		
2,2',3,5,5',6'-Hexachlorobiphenyl	52663-63-5											neg (10)	(1)		
2,2',4,4',5,5'-Hexachlorobiphenyl	35065-27-1											neg (10)	(1)		
2,3,3',4,4',6'-Hexachlorobiphenyl	74472-42-7											neg (10)	(1)		
2,3',4,4',5',6'-Hexachlorobiphenyl	59291-65-5											neg (10)	(1)		
2,2',4,4',6,6'-Hexachlorobiphenyl	33979-03-2			neg (50)	(1)										
3,3',4,4',5,5'-Hexachlorobiphenyl	32774-16-6											neg (10)	(1)		
2,2',3,3',4',5-Hexachloro-4-biphenylol	158076-62-1			0.07	(1)			0.06	(1)			neg (10)	(1)		
2,2',3,4',5,5'-Hexachloro-4-biphenylol	145413-90-7			0.03	(1)			0.04	(1)			neg (10)	(1)		
Hexestrol	84-16-2	299.8	(2)	302	(1)					234	(1)				
3-Hydroxybenzo[<i>b</i>]naphtho[2,1- <i>d</i>]thiophene								2.5	(1)						
2-Hydroxybenzo[<i>c</i>]phenanthrene								3.1	(1)						
3-Hydroxybenzo[<i>b</i>]phenanthro[2,3- <i>d</i>]thiophene								5	(1)						
2-Hydroxychrysene	65945-06-4							13.33	(1)						
11 -Hydroxyestradiol	5444-22-4	7	(1)												
14 -Hydroxyestradiol	60183-66-6														
2-Hydroxyestradiol	362-05-0			7	(1)					11	(1)				
4-Hydroxyestradiol	5976-61-4			13	(1)					7	(1)				
2-Hydroxyestrone	362-06-1			2	(1)			0.2	(1)						
2-Hydroxy-5-methylchrysene								19.3	(1)						
8-Hydroxy-5-methylchrysene								3.1	(1)						
4-Hydroxytamoxifen	68047-06-3	175.2	(1)	178	(3)	21.5	(3)	147	(2)	339	(1)	243	(1)	168	(1)
ICI 164384	98007-99-9	14.5	(1)	121.5	(2)			93	(1)	166	(1)	28	(1)	62	(1)
ICI 182780	129453-61-8	235.2	(2)	32	(1)			25	(1)						
(<i>E</i>)-17 -Iodovinylestradiol	82123-96-4	7	(1)												
(<i>Z</i>)-17 -Iodovinylestradiol	177159-09-0	63	(1)												
Ipriflavone	35212-22-7			neg (10)	(1)			neg (10)	(1)						
Kaempferol	520-18-3	0.025	(1)	0.1	(1)			2.5	(2)						

Median/Single RBA Values for Substances Tested in Two or More In Vitro ER Binding Assays

Substance	CASRN	GST-hER α def		GST-mER α def		GST-rtERdef		MCF-7 cells		MCF-7 cytosol		MUC		RBC	
		RBA	n	RBA	n	RBA	n	RBA	n	RBA	n	RBA	n	RBA	n
2,2',3,4',5,5',6-Heptachlorobiphenyl	52663-68-0	neg (10)	(1)			neg (10)	(1)								
2,2',3,4',5,6,6'-Heptachlorobiphenyl	74487-85-7	0.024	(1)			0.24	(1)								
2,3,3',4,4',5,6-Heptachlorobiphenyl	41411-64-7	neg (10)	(1)			neg (10)	(1)								
2,3,3',4',5,5',6-Heptachlorobiphenyl	69782-91-8	neg (10)	(1)			neg (10)	(1)								
2,2',3,3',4',5,5'-Heptachloro-4-biphenylol	158076-64-3	neg (10)	(1)			neg (10)	(1)								
2,2',3',4,4',5,5'-Heptachloro-3-biphenylol	158076-69-8	neg (10)	(1)			neg (10)	(1)								
2,2',3,4',5,5',6-Heptachloro-4-biphenylol	158076-68-7	neg (10)	(1)			neg (10)	(1)								
2,2',3,3',4,4'-Hexachlorobiphenyl	38380-07-3	neg (10)	(1)			neg (10)	(1)								
2,2',3,4,4',5'-Hexachlorobiphenyl	35065-28-2	neg (10)	(1)			neg (10)	(1)								
2,2',3,4',5',6-Hexachlorobiphenyl	38380-04-0	neg (10)	(1)			neg (10)	(1)								
2,2',3,4,5,6'-Hexachlorobiphenyl	68194-15-0	neg (10)	(1)			0.031	(1)								
2,2',3,5,5',6-Hexachlorobiphenyl	52663-63-5	neg (10)	(1)			neg (10)	(1)								
2,2',4,4',5,5'-Hexachlorobiphenyl	35065-27-1	neg (10)	(1)			neg (10)	(1)								
2,3,3',4,4',6-Hexachlorobiphenyl	74472-42-7	neg (10)	(1)			neg (10)	(1)								
2,3',4,4',5',6-Hexachlorobiphenyl	59291-65-5	neg (10)	(1)			neg (10)	(1)								
2,2',4,4',6,6'-Hexachlorobiphenyl	33979-03-2											0.27	(1)		
3,3',4,4',5,5'-Hexachlorobiphenyl	32774-16-6	neg (10)	(1)			neg (10)	(1)								
2,2',3,3',4',5-Hexachloro-4-biphenylol	158076-62-1	neg (10)	(1)			neg (10)	(1)								
2,2',3,4',5,5'-Hexachloro-4-biphenylol	145413-90-7	neg (10)	(1)			neg (10)	(1)								
Hexestrol	84-16-2							58	(1)	100	(1)			74	(1)
3-Hydroxybenzo[<i>b</i>]naphtho[2,1- <i>d</i>]thiophene		1.83	(1)												
2-Hydroxybenzo[<i>c</i>]phenanthrene		2.2	(1)												
3-Hydroxybenzo[<i>b</i>]phenanthro[2,3- <i>d</i>]thiophene		2.4	(1)												
2-Hydroxychrysene	65945-06-4	5.8	(1)												
11 -Hydroxyestradiol	5444-22-4							4	(1)	8.9	(2)			4	(1)
14 -Hydroxyestradiol	60183-66-6							3.5	(1)	10	(1)				
2-Hydroxyestradiol	362-05-0														
4-Hydroxyestradiol	5976-61-4														
2-Hydroxyestrone	362-06-1														
2-Hydroxy-5-methylchrysene		19.6	(1)												
8-Hydroxy-5-methylchrysene		3.1	(1)												
4-Hydroxytamoxifen	68047-06-3	155	(1)	212	(1)	272	(1)	2.9	(1)	100	(1)	14.4	(1)		
ICI 164384	98007-99-9	42	(1)	45	(1)	327	(1)								
ICI 182780	129453-61-8													500	(1)
(<i>E</i>)-17 -Iodovinyloestradiol	82123-96-4									17	(1)				
(<i>Z</i>)-17 -Iodovinyloestradiol	177159-09-0									51	(1)				
Ipriflavone	35212-22-7														
Kaempferol	520-18-3														

Median/Single RBA Values for Substances Tested in Two or More In Vitro ER Binding Assays

Substance	CASRN	RUC		hER α		hER α -FP		hER β		rER β		GST-aERdef		GST-cERdef	
		RBA	n	RBA	n	RBA	n	RBA	n	RBA	n	RBA	n	RBA	n
Kepone	143-50-0	0.03	(3)	0.06	(1)	0.2	(1)	0.1	(1)			0.011	(1)	0.011	(1)
16-Ketoestradiol	566-75-6			1.3	(1)			0.9	(1)						
6-Ketoestradiol	571-92-6														
Mestranol	72-33-3	1.26	(2)			0.0096	(1)								
Methoxychlor (<i>p,p'</i>)	72-43-5	0.001	(3/5)	0.01	(1/2)			neg (10)	(1)	0.13	(1)	neg (100)	(1)	neg (100)	(1)
(<i>E</i>)-11 -methoxy-17 -iodovinylestradiol	90857-55-9	11	(1)												
(<i>Z</i>)-11 -Methoxy-17 -iodovinylestradiol	177159-11-4	41	(1)												
11 -Methylestradiol-17	23637-93-6	124	(1)												
Moxestrol	34816-55-2	13.8	(1)	43	(1)					5	(1)				
Nafoxidine	1845-11-0	0.72	(1)	44	(1)					16	(1)				
Naringenin	480-41-1	0.0075	(1)	0.01	(1)			0.155	(2)			0.065	(1)	0.0082	(1)
4- <i>n</i> -Nonylphenol	25154-52-3			0.0255	(2)			0.0765	(2)						
<i>p</i> -Nonylphenol	104-40-5	0.033	(10)			0.4	(2)								
Norethindrone	68-22-4			0.07	(1)					0.01	(1)				
Norethynodrel	68-23-5	0.22	(2)	0.7	(1)					0.22	(1)				
19-Nortestosterone	434-22-0			0.01	(1)					0.23	(1)				
2,2',3',4,4',5,5'-Octachlorobiphenyl	35694-08-7											neg (10)	(1)		
4-Octylphenol	1806-26-4	0.005	(1)	0.02	(1)			0.07	(1)						
4- <i>tert</i> -Octylphenol	140-66-9	0.197	(3)	0.01	(1)	0.2	(1)	0.03	(1)			0.099	(1)	0.57	(1)
2,2',3,3',6-Pentachlorobiphenyl	52663-60-2											neg (10)	(1)		
2,2',3,4,5'-Pentachlorobiphenyl	38380-02-8											neg (10)	(1)		
2,2',3,4',6-Pentachlorobiphenyl	68194-05-8											neg (10)	(1)		
2,2',3,5',6-Pentachlorobiphenyl	38379-99-6											neg (10)	(1)		
2,2',4,4',5-Pentachlorobiphenyl	38380-01-7											neg (10)	(1)		
2,2',4,5,5'-Pentachlorobiphenyl	37680-73-2											neg (10)	(1)		
2,2',4,6,6'-Pentachlorobiphenyl	56558-16-8											0.025	(1)		
2,3,3',5,6,-Pentachlorobiphenyl	74472-36-9											neg (10)	(1)		
2,3,4,4',6,-Pentachlorobiphenyl	74472-38-1											neg (10)	(1)		
3,3',4,4',5,-Pentachlorobiphenyl	57465-28-8											neg (10)	(1)		
2',3,3',4',5'-Pentachloro-4-biphenylol	149589-55-9	0.082	(1)	0.11	(1)			0.11	(1)						
2,3,3',4',5-Pentachloro-4-biphenylol	152969-11-4			0.03	(1)			0.11	(1)			neg (10)	(1)		
2',3,3',4',6'-Pentachloro-4-biphenylol	192190-10-6	0.041	(1)	0.13	(1)			0.12	(1)						
2,2',3',4',5'-Pentachloro-4-biphenylol	150304-12-4	0.036	(1)	0.1	(1)			0.13	(1)						
2,2',3',4',6'-Pentachloro-4-biphenylol	150304-10-2	0.12	(1)	0.3	(1)			0.2	(1)						
2,2',3',5',6'-Pentachloro-4-biphenylol	150304-11-3	0.14	(1)	0.09	(1)			0.03	(1)						
2',3,3',4',5-Pentachloro-4-biphenylol	192190-09-3			0.01	(1)			neg (10)	(1)						
2',3,3',5',6'-Pentachloro-4-biphenylol	189578-02-7	0.068	(1)	0.06	(1)			0.04	(1)						
Phenol, 4,4'-[1,2-bis(methylene)-1,2-ethanediyl]bis	107144-81-0														

Median/Single RBA Values for Substances Tested in Two or More In Vitro ER Binding Assays

Substance	CASRN	GST-hER α def		GST-mER α def		GST-rtERdef		MCF-7 cells		MCF-7 cytosol		MUC		RBC	
		RBA	n	RBA	n	RBA	n	RBA	n	RBA	n	RBA	n	RBA	n
Kepone	143-50-0	0.0069	(1)	0.0035	(1)	0.054	(1)					neg (5)	(1)		
16-Ketoestradiol	566-75-6									0.9	(1)			14	(1)
6-Ketoestradiol	571-92-6							15	(1)	20	(1)				
Mestranol	72-33-3													8	(1)
Methoxychlor (<i>p,p'</i> -)	72-43-5	neg (100)	(1)	neg (100)	(1)	0.95	(1)			neg (1000)	(1)	neg (5)	(1)	0.0031	(1)
(<i>E</i>)-11 -methoxy-17 -iodovinylestradiol	90857-55-9									17	(1)				
(<i>Z</i>)-11 -Methoxy-17 -iodovinylestradiol	177159-11-4									31	(1)				
11 -Methylestradiol-17	23637-93-6							100	(1)	100	(1)				
Moxestrol	34816-55-2											4.25	(1)		
Nafoxidine	1845-11-0							0.1	(1)	5	(1)				
Naringenin	480-41-1	neg (100)	(1)	neg (100)	(1)	0.039	(1)								
4- <i>n</i> -Nonylphenol	25154-52-3											neg (5)	(1)	0.0011	(1)
<i>p</i> -Nonylphenol	104-40-5							0.026	(1)	0.021	(1)				
Norethindrone	68-22-4														
Norethynodrel	68-23-5														
19-Nortestosterone	434-22-0											0.1	(1)		
2,2',3,3',4,4',5,5'-Octachlorobiphenyl	35694-08-7	neg (10)	(1)			neg (10)	(1)								
4-Octylphenol	1806-26-4							0.072	(1)	1	(1)			neg (100)	(1)
4- <i>tert</i> -Octylphenol	140-66-9	0.12	(1)	0.17	(1)	3.2	(1)								
2,2',3,3',6-Pentachlorobiphenyl	52663-60-2	neg (10)	(1)			neg (10)	(1)								
2,2',3,4,5'-Pentachlorobiphenyl	38380-02-8	neg (10)	(1)			neg (10)	(1)								
2,2',3,4',6-Pentachlorobiphenyl	68194-05-8	neg (10)	(1)			0.031	(1)								
2,2',3,5',6-Pentachlorobiphenyl	38379-99-6	neg (10)	(1)			neg (10)	(1)								
2,2',4,4',5-Pentachlorobiphenyl	38380-01-7	neg (10)	(1)			neg (10)	(1)								
2,2',4,5,5'-Pentachlorobiphenyl	37680-73-2	neg (10)	(1)			neg (10)	(1)								
2,2',4,6,6'-Pentachlorobiphenyl	56558-16-8	0.024	(1)			0.24	(1)					0.88	(1)		
2,3,3',5,6,-Pentachlorobiphenyl	74472-36-9	neg (10)	(1)			neg (10)	(1)								
2,3,4,4',6,-Pentachlorobiphenyl	74472-38-1	neg (10)	(1)			0.031	(1)								
3,3',4,4',5,-Pentachlorobiphenyl	57465-28-8	neg (10)	(1)			neg (10)	(1)								
2',3,3',4',5'-Pentachloro-4-biphenylol	149589-55-9											0.072	(1)		
2,3,3',4',5'-Pentachloro-4-biphenylol	152969-11-4	neg (10)	(1)			neg (10)	(1)			1	(1)				
2',3,3',4',6'-Pentachloro-4-biphenylol	192190-10-6											neg (1000)	(1)		
2,2',3',4',5'-Pentachloro-4-biphenylol	150304-12-4											0.033	(1)		
2,2',3',4',6'-Pentachloro-4-biphenylol	150304-10-2											0.044	(1)		
2,2',3',5',6'-Pentachloro-4-biphenylol	150304-11-3											0.013	(1)		
2',3,3',4',5-Pentachloro-4-biphenylol	192190-09-3					neg (10)	(1)			0.1	(2)	0.072	(1)		
2',3,3',5',6'-Pentachloro-4-biphenylol	189578-02-7											0.031	(1)		
Phenol, 4,4'-[1,2-bis(methylene)-1,2-ethanediyl]bis	107144-81-0							26	(1)	20	(1)				

Median/Single RBA Values for Substances Tested in Two or More In Vitro ER Binding Assays

Substance	CASRN	RUC		hER α		hER α -FP		hER β		rER β		GST-aERdef		GST-cERdef	
		RBA	n	RBA	n	RBA	n	RBA	n	RBA	n	RBA	n	RBA	n
Phenol, 4-[7-[2 dimethylamino]ethoxy]-11-ethyl-dibenzo[<i>b,f</i>]thiepin-10-yl)	85850-74-4	63	(1)												
Phenol, 4-[3-[2 dimethylamino]ethoxy]-11-ethyl-dibenzo[<i>b,f</i>]thioctin-12-yl)	85850-81-3	52	(1)												
Phenol, 4-[2-[2 dimethylamino]ethoxy]-6-ethyl-11,12-dihydrodibenzo[<i>a,e</i>]cycloocten-5-yl]	85870-75-5	50	(1)												
Phenol, 3-[2-dimethylamino-ethoxy]-10-ethyl-4-hydroxy-phenyl dibenzo- <i>[b,f]</i> oxepin	85850-80-2	6.1	(1)												
Phenol, 4-[1-[4-[2-(dimethylamino)ethoxy] phenyl]-2-phenyl-1-butenyl]-3-methyl-, (<i>E</i>)	96474-35-0														
Phenol, 4-[2-nitro-2-phenyl-1-[4-[2-(1-pyrrolidinyl)ethoxy] phenyl]-ethenyl]	107144-84-3														
Phenol, 4,4'-(2-phenyl-1-butenylidene)bis-4-Phenylphenol	92-69-3	0.001	(1)												
Phloretin	60-82-2	0.069	(1)	0.2	(1)			0.7	(1)						
Progesterone	57-83-0	0.0003	(1/3)	neg (100)	(2)			neg (10)	(1)	neg (100)	(1)				
Promegestone	34184-77-5	0.22	(1/2)												
Propylpyrazoletriol				49	(1)			0.12	(1)						
Pyrrolidine, 1-[2-[4-[1-(4-methoxyphenyl)-2-nitro-2-phenylethenyl]phenoxy]ethyl]-, (<i>E</i>) (9 CI)	77413-87-7														
Quercetin	117-39-5	neg (100)	(1)	0.0100	(1)			0.04	(1)			0.016	(1)	0.0039	(1)
6-Quinololinol, 1-ethyl-1,2-dihydro-3-(4-hydroxyphenyl)-4-methyl-	107144-82-1														
7-Quinololinol, 1-ethyl-1,2-dihydro-3-(4-hydroxyphenyl)-4-methyl-	107144-83-2														
Raloxifene	84449-90-1			60.4	(2)			21	(2)						
Simazine	122-34-9	neg (33.3)	(1)			neg (2000)	(1)					neg (100)	(1)	neg (100)	(1)
β -Sitosterol	83-46-5	neg (1000)	(1)	neg (100)	(1)					neg (100)	(1)	neg (100)	(1)	neg (100)	(1)
Tamoxifen	10540-29-1	3.1	(4)	4	(3)	3.03	(2)	2.34	(2)	6	(1)	10	(1)	16	(1)
Testosterone	58-22-0	0.01	(1/2)	neg (100)	(2)			neg (10)	(1)	neg (100)	(1)				
2,2',3,3'-Tetrachlorobiphenyl	3844-93-8											neg (10)	(1)		
2,2',3,4'-Tetrachlorobiphenyl	52663-59-9											neg (10)	(1)		
2,2',3,6'-Tetrachlorobiphenyl	41464-47-5											neg (10)	(1)		
2,2',4,4'-Tetrachlorobiphenyl	2437-79-8	neg (100)	(1)									neg (10)	(1)		
2,2',4,5'-Tetrachlorobiphenyl	41464-40-8											neg (10)	(1)		
2,2',4,6'-Tetrachlorobiphenyl	68194-04-7											neg (10)	(1)		
2,2',6,6'-Tetrachlorobiphenyl	15968-05-5			neg (100)	(1)			neg (100)	(1)			neg (10)	(1)		
2,3,3',5'-Tetrachlorobiphenyl	41464-49-7											neg (10)	(1)		
2,3,4,4'-Tetrachlorobiphenyl	33025-41-1											neg (10)	(1)		
2,3',4',5'-Tetrachlorobiphenyl	32598-11-1											neg (10)	(1)		
2,3',4,5'-Tetrachlorobiphenyl	73575-52-7											neg (10)	(1)		
2,4,4',5'-Tetrachlorobiphenyl	32690-93-0											neg (10)	(1)		
3,3',4,4'-Tetrachlorobiphenyl	32598-13-3	neg (300)	(1)	neg (50)	(1)							neg (10)	(1)		

Median/Single RBA Values for Substances Tested in Two or More In Vitro ER Binding Assays

Substance	CASRN	GST-hER α def		GST-mER α def		GST-rtERdef		MCF-7 cells		MCF-7 cytosol		MUC		RBC	
		RBA	n	RBA	n	RBA	n	RBA	n	RBA	n	RBA	n	RBA	n
Phenol, 4-[7-[2 dimethylamino)ethoxy]-11-ethyl]dibenzo[<i>b,f</i>] [thiepin-10-yl]	85850-74-4							0.3	(1)	63	(1)				
Phenol, 4-[3-[2 dimethylamino)ethoxy]-11-ethyl]dibenzo[<i>b,f</i>] [thioctin-12-yl]	85850-81-3							2.5	(1)	50	(1)				
Phenol, 4-[2-[2 dimethylamino)ethoxy]-6-ethyl-11,12-dihydrodibenzo[<i>a,e</i>] [cycloocten-5-yl]	85870-75-5							1.3	(1)	50	(1)				
Phenol, 3-[2-dimethylamino-ethoxy]-10-ethyl-4-hydroxy-phenyl dibenzo-[<i>b,f</i>]oxepin	85850-80-2							0.1	(1)	6	(1)				
Phenol, 4-[1-[4-[2-(dimethylamino)ethoxy] phenyl]-2-phenyl-1-butenyl]-3-methyl-, (E)	96474-35-0							0.4	(1)	100	(1)				
Phenol, 4-[2-nitro-2-phenyl-1-[4-[2-(1-pyrrolidinyl)ethoxy] phenyl]-ethenyl]	107144-84-3							2.1	(1)	100	(1)				
Phenol, 4,4'-(2-phenyl-1-butenylidene)bis-4-Phenylphenol	92-69-3							2	(1)	100	(1)				
Phloretin	60-82-2												neg (5)	(1)	
Progesterone	57-83-0												neg (10)	(1)	
Promegestone	34184-77-5												neg (10)	(1)	
Propylpyrazoletriol															
Pyrrolidine, 1-[2-[4-[1-(4-methoxyphenyl)-2-nitro-2-phenylethenyl]phenoxy]ethyl]-, (E) (9 CI)	77413-87-7							0.07	(1)	11	(1)				
Quercetin	117-39-5	neg (100)	(1)	neg (100)	(1)	0.042	(1)			neg (25)	(1)				
6-Quinololinol, 1-ethyl-1,2-dihydro-3-(4-hydroxyphenyl) 4-methyl-	107144-82-1							22	(1)	33	(1)				
7-Quinololinol, 1-ethyl-1,2-dihydro-3-(4-hydroxyphenyl) 4-methyl-	107144-83-2							3	(1)	9	(1)				
Raloxifene	84449-90-1														
Simazine	122-34-9	neg (100)	(1)	neg (100)	(1)	neg (100)	(1)								
β -Sitosterol	83-46-5	neg (100)	(1)	neg (100)	(1)	neg (100)	(1)								
Tamoxifen	10540-29-1	11	(1)	10	(1)	25	(1)	0.06	(1)	1	(1)	6.55	(1)	0.017	(1)
Testosterone	58-22-0											neg (10)	(1)	neg (100)	(1)
2,2',3,3'-Tetrachlorobiphenyl	3844-93-8	neg (10)	(1)			neg (10)	(1)								
2,2',3,4'-Tetrachlorobiphenyl	52663-59-9	neg (10)	(1)			0.024	(1)								
2,2',3,6'-Tetrachlorobiphenyl	41464-47-5	neg (10)	(1)			0.031	(1)								
2,2',4,4'-Tetrachlorobiphenyl	2437-79-8	neg (10)	(1)			0.031	(1)								
2,2',4,5'-Tetrachlorobiphenyl	41464-40-8	neg (10)	(1)			neg (10)	(1)								
2,2',4,6'-Tetrachlorobiphenyl	68194-04-7	neg (10)	(1)			0.0310	(1)								
2,2',6,6'-Tetrachlorobiphenyl	15968-05-5	neg (10)	(1)			0.0310	(1)								
2,3,3',5'-Tetrachlorobiphenyl	41464-49-7	neg (10)	(1)			neg (10)	(1)								
2,3,4,4'-Tetrachlorobiphenyl	33025-41-1	neg (10)	(1)			neg (10)	(1)								
2,3',4',5'-Tetrachlorobiphenyl	32598-11-1	neg (10)	(1)			neg (10)	(1)								
2,3',4,5'-Tetrachlorobiphenyl	73575-52-7	neg (10)	(1)			neg (10)	(1)								
2,4,4',5'-Tetrachlorobiphenyl	32690-93-0	neg (10)	(1)			neg (10)	(1)								
3,3',4,4'-Tetrachlorobiphenyl	32598-13-3	neg (10)	(1)			neg (10)	(1)								

Median/Single RBA Values for Sustances Tested in Two or More In Vitro ER Binding Assays

Substance	CASRN	RUC		hER α		hER α -FP		hER β		rER β		GST-aERdef		GST-cERdef	
		RBA	n	RBA	n	RBA	n	RBA	n	RBA	n	RBA	n	RBA	n
3,3',4,5-Tetrachlorobiphenyl	70362-49-1											neg (10)	(1)		
3,3',5,5'-Tetrachloro-4,4'-biphenyldiol	13049-13-3	0.001	(1)												
2,2',4',6'-Tetrachloro-4-biphenylol	150304-08-8	0.0005	(1)	0.3	(1)			0.5	(1)						
2,2',6,6'-Tetrachloro-4-biphenylol	219952-18-8			0.3	(3)			0.25	(1)			0.5	(1)		
2',3',4',5'-Tetrachloro-4-biphenylol	67651-34-7	0.23	(1)	3.4	(1)			7.2	(1)			0.5	(1)		
2',3,4',6'-Tetrachloro-4-biphenylol	189578-00-5	neg (1000)	(1)	0.18	(1)			0.23	(1)						
Tetrahydrochrysene	104460-72-2			3	(1)			6.5	(1)						
(rac) -Tetrahydrochrysene				2.5	(1)			25	(1)						
(R,R) -Tetrahydrochrysene				3.6	(1)			25	(1)						
(S,S) -Tetrahydrochrysene				0.83	(1)			1.3	(1)						
Tetramethylhexestrol	74385-27-6														
Toxaphene	8001-35-2			neg (10)	(1)										
triaryl-Pyrazole				60	(1)			18	(1)						
2,2',5-Trichlorobiphenyl	37680-65-2											neg (10)	(1)		
2,4,6-Trichloro-4'-biphenylol	35693-92-6			0.747	(1)										
2',4',6'-Trichloro-4-biphenylol	14962-28-8			1.58	(2)			4.7	(1)						
-Zearalanol	42422-68-4	0.64	(1)	16	(1)					14	(1)				
-Zearalenol	36455-72-8	43	(1)									36	(1)	70	(1)
-Zearalenol	71030-11-0	0.2	(1)									4.2	(1)	23	(1)
Zearalenone	17924-92-4	44.1	(1)	8.5	(2)	22	(1)	11.5	(2)			12	(1)	33	(1)

RBA data presented as median RBA value (in micromolar) for two or more experiments using the same assay, or as a single value if only one experiment had been conducted. Neg = negative for ER binding; number in parenthesis indicates the highest dose tested.

n = the number of experiments conducted. If two numbers are in parenthesis, the first number indicates the number of positive experiments, while the second number indicates the number of experiments conducted.

Median/Single RBA Values for Substances Tested in Two or More In Vitro ER Binding Assays

Substance	CASRN	GST-hER α def		GST-mER α def		GST-rtERdef		MCF-7 cells		MCF-7 cytosol		MUC		RBC	
		RBA	n	RBA	n	RBA	n	RBA	n	RBA	n	RBA	n	RBA	n
3,3',4,5-Tetrachlorobiphenyl	70362-49-1	neg (10)	(1)			neg (10)	(1)								
3,3',5,5'-Tetrachloro-4,4'-biphenyldiol	13049-13-3									0.4	(1)	0.102	(2)		
2,2',4',6'-Tetrachloro-4-biphenylol	150304-08-8											0.018	(1)		
2,2',6,6'-Tetrachloro-4-biphenylol	219952-18-8	0.48	(1)			1.03	(1)								
2',3',4',5'-Tetrachloro-4-biphenylol	67651-34-7	2.4	(1)			1.15	(1)			3.2	(1)	1.11	(3)		
2',3,4',6'-Tetrachloro-4-biphenylol	189578-00-5											neg (1000)	(1)		
Tetrahydrochrysene	104460-72-2														
(rac) -Tetrahydrochrysene															
(R,R) -Tetrahydrochrysene															
(S,S) -Tetrahydrochrysene															
Tetramethylhexestrol	74385-27-6							2	(1)	1.5	(1)				
Toxaphene	8001-35-2									0.0003	(1)	neg (10)	(1)		
triaryl-Pyrazole															
2,2',5-Trichlorobiphenyl	37680-65-2	neg (10)	(1)			neg (10)	(1)								
2,4,6-Trichloro-4'-biphenylol	35693-92-6											5.37	(1)		
2',4',6'-Trichloro-4-biphenylol	14962-28-8									6.3	(1)	2.38	(3)		
-Zearalanol	42422-68-4														
-Zearalenol	36455-72-8	48	(1)	53	(1)	267	(1)								
-Zearalenol	71030-11-0	13	(1)	11	(1)	91	(1)								
Zearalenone	17924-92-4	9.3	(1)	12	(1)	82	(1)			18	(1)				

RBA data presented as median RBA value (in micromolar) for two or more experiments using the same assay, or as a single value if only one experiment had been conducted. Neg = negative for ER binding; number in parenthesis indicates the highest dose tested.

n = the number of experiments conducted. If two numbers are in parenthesis, the first number indicates the number of positive experiments, while the second number indicates the number of experiments conducted.