

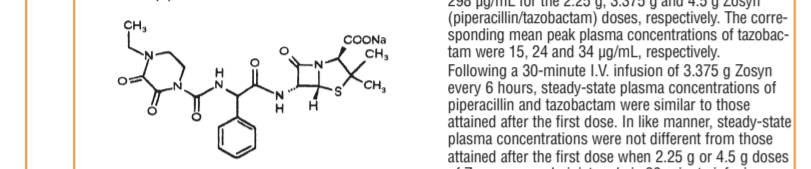


ZOSYN®
(Piperacillin and tazobactam for injection) is a penicillin and tazobactam combination product consisting of the semisynthetic antibiotic piperacillin sodium and the β-lactamase inhibitor tazobactam sodium for intravenous administration.

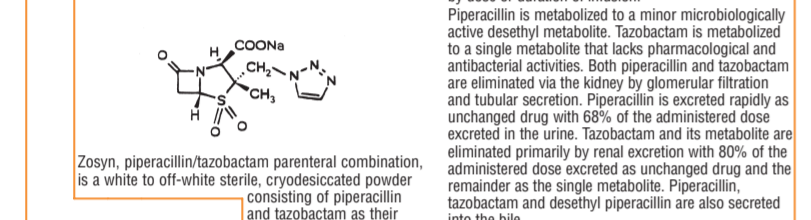
INDICATIONS AND USAGE
Piperacillin and tazobactam for injection (Zosyn) is indicated for the treatment of the following infections in patients with normal renal function. Dosage adjustments for Zosyn are recommended when creatinine clearance is below 40 mL/min in patients receiving the usual recommended daily dose of Zosyn (piperacillin and tazobactam for injection). (See **DOSE AND ADMINISTRATION** section for specific recommendations for the treatment of patients with renal insufficiency.) Hemodialysis removes 30% to 40% of a piperacillin and tazobactam dose with an additional 5% of the tazobactam dose removed as the tazobactam metabolite.

DESCRIPTION
Zosyn (piperacillin and tazobactam for injection) is an injectable antibacterial combination product consisting of the semisynthetic antibiotic piperacillin sodium and the β-lactamase inhibitor tazobactam sodium for intravenous administration.

Piperacillin sodium is derived from D(-)-α-aminobenzylpenicillin. The chemical name of piperacillin sodium is sodium (2S,5R,6R)-6-(1*R*)-2-(4-ethyl-2,3-dioxo-1-piperazine-carboxamido)-4-phenylacetamido)-3,3-dihydro-2-oxo-1*H*-1,2,4-triazolopyridine-3,2*H*-one heptanoate sodium salt. The chemical formula is C₂₂H₃₂N₆O₆S and the molecular weight is 539.5. The chemical structure of piperacillin sodium is:



Tazobactam sodium, a derivative of the penicillin nucleus, is a penicillanic acid sulfone. Its chemical name is sodium (2Z,3S,5S)-3-methyl-7-oxo-3-(1*H*)-1,2,4-triazolo-1-ylmethyl-4-thia-1-azabicyclo[3.2.0]heptane-2-carboxylate sodium salt. The chemical formula is C₁₄H₁₆N₂O₆S and the molecular weight is 322.3. The chemical structure of tazobactam sodium is:



Zosyn, piperacillin/tazobactam parenteral combination, is a white to off-white sterile, cryoprotected powder consisting of piperacillin and tazobactam as their sodium salts packaged in glass vials. The product does not contain preservatives.

Each Zosyn 2.25 g single dose vial or ADD-Vantage® vial contains an amount of drug sufficient for withdrawal of piperacillin sodium equivalent to 2 grams of tazobactam sodium equivalent to 0.25 g of tazobactam.

Piperacillin and tazobactam are widely distributed into tissues and body fluids including intestinal mucosa, gallbladder, lung, female reproductive tract, uterus, fallopian tube, ovaries, and fallopian tube, interstitial fluid, and bile. Mean tissue concentrations are generally 50% to 100% of those in plasma. Distribution of piperacillin and tazobactam into cerebrospinal fluid is low in subjects with non-inflamed meninges, as with other penicillins. After the administration of single doses of piperacillin/tazobactam to subjects with renal impairment, the half-life of piperacillin and tazobactam increases with decreasing creatinine clearance. At creatinine clearance below 20 mL/min, the increase in half-life is twofold for piperacillin and twofold for tazobactam compared to subjects with normal renal function. Dosage adjustments for Zosyn are recommended when creatinine clearance is below 40 mL/min in patients receiving the usual recommended daily dose of Zosyn (piperacillin and tazobactam for injection). (See **DOSE AND ADMINISTRATION** section for specific recommendations for the treatment of patients with renal insufficiency.) Hemodialysis removes 30% to 40% of a piperacillin and tazobactam dose with an additional 5% of the tazobactam dose removed as the tazobactam metabolite.

TABLE 1
STEADY STATE MEAN PLASMA CONCENTRATIONS IN ADULTS AFTER 30-MINUTE INTRAVENOUS INFUSION OF PIPERACILLIN/TAZOBACTAM EVERY 6 HOURS

Piperacillin/Tazobactam Dose*	No. of Evaluable Subjects	Plasma Concentrations** (µg/mL)						AUC ₀₋₂₄ (µg·hr/mL)
		30 min	1 hr	2 hr	3 hr	4 hr	6 hr	
2.25 g	8	24.2 (14)	57 (14)	17.1 (23)	5.2 (22)	2.5 (5)	0.8 (14)	16.1 (3)
3.375 g	6	24.2 (12)	106 (18)	34.6 (20)	11.5 (19)	5.1 (10)	1.4 (30)	24.2 (10)
4.5 g	8	298 (14)	141 (19)	46.8 (28)	16.4 (29)	6.9 (22)	1.4 (30)	32.2 (16)

Piperacillin/Tazobactam Dose*	No. of Evaluable Subjects	Plasma Concentrations** (µg/mL)						AUC ₀₋₂₄ (µg·hr/mL)
		30 min	1 hr	2 hr	3 hr	4 hr	6 hr	
2.25 g	8	14.8 (14)	7.2 (22)	2.6 (30)	1.1 (55)	0.7 (6)	<0.5	16.0 (21)
3.375 g	8	24.2 (14)	10.7 (7)	4.0 (19)	2.8 (25)	1.3 (30)	<0.5	16.0 (6)
4.5 g	8	33.8 (15)	17.3 (16)	6.8 (24)	2.8 (25)	1.3 (30)	<0.5	39.8 (15)

** Numbers in parentheses are coefficients of variation (%CV). * 30-minute infusions every 6 hours are provided in Table 1. † In a study of piperacillin and tazobactam every 6 hours, steady-state plasma concentrations were similar to those attained after the first dose. In like manner, steady-state plasma concentrations were not different from those attained after the first dose when 2.25 g or 4.5 g doses of Zosyn were administered via 30-minute infusions every 6 hours. Steady-state plasma concentrations after 30-minute infusions every 6 hours are provided in Table 1. ‡ Following single or multiple Zosyn doses to healthy subjects, the plasma half-life of piperacillin and of tazobactam was approximately 0.7 to 1.2 hours and was unaffected by dose or duration of infusion. § Piperacillin is metabolized to a minor microbiologically active desethyl metabolite. Tazobactam is metabolized to a single metabolite that lacks pharmacological and antibiologic activities. Both piperacillin and tazobactam are eliminated via the kidney by glomerular filtration and tubular secretion. Tazobactam is excreted as unchanged drug with 68% of the administered dose excreted in the urine. Tazobactam and its metabolite are eliminated primarily by renal excretion with 80% of the administered dose excreted as unchanged drug and the remainder as the single metabolite. Piperacillin, tazobactam and desethyl piperacillin are also secreted in breast milk. ¶ Both piperacillin and tazobactam are approximately 30% bound to plasma proteins. The protein binding of either piperacillin or tazobactam is unaffected by the presence of the other compound. Protein binding of the tazobactam metabolite is negligible.

CONTRAINDICATIONS
Piperacillin and tazobactam for injection should not be administered to patients with a known hypersensitivity to piperacillin, penicillins, or β-lactamase inhibitors. **WARNINGS**
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TABLE 2
SUSCEPTIBILITY INTERPRETIVE CRITERIA FOR PIPERACILLIN/TAZOBACTAM

Pathogen	Susceptibility Test Result		Disk Diffusion (Zone Diameter in mm)	
	S	R	S	R
<i>Enterobacteriaceae</i> and <i>Acinetobacter baumannii</i>	≤ 16	≥ 32-64	≥ 18	≤ 21
<i>Haemophilus influenzae</i> ^a	≤ 4	-	≥ 2	-
<i>Pseudomonas aeruginosa</i>	≤ 61	-	≥ 18	-
<i>Staphylococcus aureus</i>	≤ 8	-	≥ 16	≥ 20
<i>Bacteroides fragilis</i> group ^b	≤ 32	64	≥ 18	-

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TABLE 3
ACCEPTABLE QUALITY CONTROL RANGES FOR PIPERACILLIN/TAZOBACTAM TO BE USED IN VALIDATION

QC Strain	Acceptable Quality Control Ranges	
	Minimum Inhibitory Concentration Range (MIC in µg/mL)	Disk Diffusion Zone Diameter Ranges in mm
<i>Escherichia coli</i> ATCC 25922	1-4	24-30
<i>Escherichia coli</i> ATCC 35218	0.5-2	24-30
<i>Pseudomonas aeruginosa</i> ATCC 27853	1-8	25-33
<i>Haemophilus influenzae</i> ^a ATCC 49247	0.06-0.5	-
<i>Staphylococcus aureus</i> ATCC 29213	0.25-2	-
<i>Staphylococcus aureus</i> ATCC 29523	-	27-36
<i>Bacteroides fragilis</i> ATCC 25285	0.12-0.5	-
<i>Bacteroides thetaioacetum</i> ATCC 29741	4-16	-

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