

Approved Medications to Treat HIV Infection

Anti-HIV (also called antiretroviral) medications are used to control the reproduction of the virus and to slow the progression of HIV-related disease. **Highly Active Antiretroviral Therapy (HAART)** is the recommended treatment for HIV infection. HAART combines three or more anti-HIV medications in a daily regimen. Anti-HIV medications do not cure HIV infection, and individuals taking these medications can still transmit HIV to others. Anti-HIV medications approved by the U.S. Food and Drug Administration (FDA) fall into five classes:

| Class | Generic Name | Brand & Other Names | Manufacturer | FDA Approval Date |
|---|---|--|----------------------|------------------------------------|
| Non-nucleoside Reverse Transcriptase Inhibitors (NNRTIs) | | | | |
| <i>NNRTIs bind to and disable reverse transcriptase, a protein that HIV needs to make more copies of itself.</i> | Delavirdine | Rescriptor, DLV | Pfizer | April 4, 1997 |
| | Efavirenz | Sustiva, EFV | Bristol-Myers Squibb | Sept. 17, 1998 |
| | Etravirine | Intelence, Celsentri, TMC125, ETR | Tibotec | Jan. 18, 2008 |
| | Nevirapine | Viramune, NVP | Boehringer Ingelheim | June 21, 1996 |
| Nucleoside Reverse Transcriptase Inhibitors (NRTIs) | | | | |
| <i>NRTIs are faulty versions of building blocks that HIV needs to make more copies of itself. When HIV uses an NRTI instead of a normal building block, reproduction of the virus is stalled.</i> | Abacavir | Ziagen, ABC | GlaxoSmithKline | Dec. 17, 1998 |
| | Abacavir, Lamivudine | Epzicom | GlaxoSmithKline | Aug. 2, 2004 |
| | Abacavir, Lamivudine, Zidovudine | Trizivir | GlaxoSmithKline | Nov. 14, 2000 |
| | Didanosine | Videx, ddI, Videx EC | Bristol-Myers Squibb | Oct. 9, 1991 Oct. 31, 2000 (EC) |
| | Emtricitabine | Emtriva, FTC, Coviracil | Gilead Sciences | July 2, 2003 |
| | Emtricitabine, Tenofovir DF | Truvada | Gilead Sciences | Aug. 2, 2004 |
| | Lamivudine | Epivir, 3TC | GlaxoSmithKline | Nov. 17, 1995 |
| | Lamivudine, Zidovudine | Combivir | GlaxoSmithKline | Sept. 27, 1997 |
| | Stavudine | Zerit, d4T | Bristol-Myers Squibb | June 24, 1994 |
| | Tenofovir DF | Viread, TDF | Gilead Sciences | Oct. 26, 2001 |
| | Zidovudine | Retrovir, AZT, ZDV | GlaxoSmithKline | March 19, 1987 |

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| Class | Generic Name | Brand & Other Names | Manufacturer | FDA Approval Date |
|--|---|------------------------------|---|-------------------|
| Protease Inhibitors (PIs) | | | | |
| <i>PIs disable protease, a protein that HIV needs to make more copies of itself.</i> | Amprenavir | Agenerase, APV | GlaxoSmithKline, Vertex Pharmaceuticals | April 15, 1999 |
| | Atazanavir | Reyataz, ATV | Bristol-Myers Squibb | June 20, 2003 |
| | Darunavir | Prezista, TMC114, DRV | Tibotec | June 23, 2006 |
| | Fosamprenavir | Lexiva, FPV | GlaxoSmithKline, Vertex Pharmaceuticals | Oct. 20, 2003 |
| | Indinavir | Crixivan, IDV | Merck | March 13, 1996 |
| | Lopinavir, Ritonavir | Kaletra, LPV/r | Abbott Laboratories | Sept. 15, 2000 |
| | Nelfinavir | Viracept, NFV | Agouron Pharmaceuticals | March 14, 1997 |
| | Ritonavir | Norvir, RTV | Abbott Laboratories | March 1, 1996 |
| | Saquinavir | Invirase, SQV | Hoffmann-La Roche | Dec. 6, 1995 |
| | Tipranavir | Aptivus, TPV | Boehringer Ingelheim | June 22, 2005 |
| Entry/Fusion Inhibitors | | | | |
| <i>Entry/Fusion inhibitors work by blocking HIV entry into cells.</i> | Enfuvirtide | Fuzeon, T-20 | Hoffmann-La Roche, Trimeris | March 13, 2003 |
| | Maraviroc | Selzentry, MVC | Pfizer | Aug. 6, 2007 |
| Integrase Inhibitors | | | | |
| <i>Integrase inhibitors disable integrase, a protein that HIV uses to insert its viral genetic material into the genetic material of an infected cell.</i> | Raltegravir | Isentress | Merck | Oct. 12, 2007 |
| Fixed Dose Combination | | | | |
| <i>Fixed dose combination tablets contain 2 or more anti-HIV medications that can be from 1 or more drug classes.</i> | Abacavir, Lamivudine | Epzicom | GlaxoSmithKline | Aug. 2, 2004 |
| | Abacavir, Lamivudine, Zidovudine | Trizivir | GlaxoSmithKline | Nov. 14, 2000 |
| | Efavirenz, Emtricitabine, Tenofovir DF | Atripla | Bristol-Myers Squibb, Gilead Sciences | July 12, 2006 |
| | Emtricitabine, Tenofovir DF | Truvada | Gilead Sciences | Aug. 2, 2004 |
| | Lamivudine, Zidovudine | Combivir | GlaxoSmithKline | Sept. 27, 1997 |