

AIDS InfoNet

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Fact Sheet Number 402

DRUG NAMES AND MANUFACTURERS

None of these drugs can kill the HIV virus, but each class slows down the multiplication of the virus (replication) in a particular way.

1. Reverse transcriptase inhibitors ("Nukes"): The first anti-HIV drugs. They block reverse transcription (the creation of viral DNA from RNA) by providing "decoy" building blocks that interrupt the process. Most are nucleoside analogs; tenofovir is a nucleotide analog.

Year approved*	Generic Name	Trade Name	Also known as:	Manufacturer	
1987	Zidovudine	Retrovir®	AZT, ZDV	GlaxoSmithKline	
1991	Didanosine	Videx®	ddl	Bristol-Myers Squibb, Barr Laboratories (generic)	
1992	Zalcitabine, Hivid® (ddC, dideoxycytidine) by Roche: Manufacture discontinued in 2006				
1994	Stavudine	Zerit®	d4T	Bristol-Myers Squibb	
1995	Lamivudine	Epivir®	3TC	GlaxoSmithKline	
1997	Zidovudine/Lamivudine	Combivir®	Combines AZT & 3TC	GlaxoSmithKline	
1998	Abacavir	Ziagen® 1592U89		GlaxoSmithKline	
2000	Zidovudine/Lamivudine/Abacavir	Trizivir®	Combines AZT, 3TC, Abacavir	GlaxoSmithKline	
2001	Tenofovir	Viread®	TDF, bis-poc PMPA	Gilead Sciences	
2003	Emtricitabine	Emtriva™	FTC	Gilead Sciences	
2004	Abacavir/Lamivudine	Epzicom™	Combines Ziagen and 3TC	GlaxoSmithKline	
2004	Emtricitabine/Tenofovir	enofovir Truvada™ Combines Emtriva and Viread		Gilead Sciences	

CH-126,443, beta-L-Fd4C) by Achillion Pharmaceuticals, MIV-210 (FLG) by GlaxoSmithKline and Medivir, Racivir by Pharmasset Inc. and SPD754 by Shire Pharmaceuticals.

2. Non-nucleoside reverse transcriptase inhibitors: these also interrupt reverse transcription, by binding to the reverse transcriptase enzyme and restricting its activity.

1996	Nevirapine	Viramune®	NVP, BI-RG-587	Boehringer Ingelheim	
1997	Delavirdine	Rescriptor®	DLV	Pfizer/Agouron	
1998	Efavirenz	Sustiva®	EFV, DMP-266	Bristol-Myers Squibb	
Other NNRTI's in human trials: +/-Calanolide A by Sarawak MediChem Pharmaceuticals, GW5634 by GlaxoSmithKline, MIV-150 by Medivir, and					
Etravirine (TMC125) and TMC128 by Tibotec.					

2a. Combination medication: includes a non-nucleoside reverse transcriptase inhibitor and two nucleoside reverse transcriptase inhibitor					
	2006	Efavirenz/emtricitabine/tenofovir	Atripla™	Combines Sustiva, Emtriva and	Bristol-Myers Squibb and
				Viread	Gilead

3. Protease inhibitors: Block the action of protease, an enzyme that cuts HIV protein chains into specific proteins needed to assemble a new copy of the virus. NOTE: when you see "/r" after the name of a protease inhibitor, that means it is boosted with a small dose of ritonavir. For example, SQV/r means saguinavir boosted with ritonavir.

1995	Saquinavir	Invirase®	SQV	Roche	
1996	Ritonavir	Norvir®	RTV	Abbott	
1996	Indinavir	Crixivan®	IDV	Merck	
1997	Nelfinavir	Viracept®	NFV	Pfizer/Agouron	
1997	Saquinavir	Fortovase® Manufact	Fortovase® Manufacture discontinued in 2006; Roche		
1999	Amprenavir	Agenerase®	APV; 141W94	GlaxoSmithKline	
2000	Lopinavir	Kaletra®	LPV, ABT-378/r	Abbott	
2003	Atazanavir	Reyataz™	ATV, BMS-232632	Bristol-Myers Squibb	
2003	Fosamprenavir	Lexiva™	FPV, GW433908. 908	GlaxoSmithKline	
2005	Tipranavir	Aptivus™	PNU140690	Boehringer Ingelheim	
2006	Darunavir	Prezista™	TMC114	Tibotec	
Other Pls in human trials: GW640385 by GlaxoSmithKline, and RO033-4649 by Roche.					

4. Integrase inhibitors: Block the action of integrase, an enzyme that inserts the viral DNA into the infected cell's DNA strands. No integrase inhibitors have been approved yet, and none are currently in human trials.

Attachment and Fusion inhibitors: Prevent HIV from attaching to a cell.

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	2003	Enfuvirtide	Fuzeon™	T-20	Trimeris/Roche	
ĺ	Other fusion and attachment inhibitors in human trials include: AMD070 by AnorMED, BMS-806 by Bristol-Myers Squibb, FP21399 by Fuji					
	Pharmaceuticals, GW873140 by GlaxoSmithKline, INCB9471 by Incyte, PRO 542 by Progenics Pharmaceuticals, Inc. (Phase I/II trials), SCH-C and					
	Vicriviroc (SCH-D) by Schering, TAK-220 by Takeda, TNX-355 by Tanox, and Maraviroc (UK-427-857) by Pfizer.					

- 6. Antisense drugs: These are a "mirror image" of part of the HIV genetic code that locks onto the virus to prevent it from functioning. One antisense drug, HGTV43 by Enzo Therapeutics, is in Phase I trials.
- 7. Immune Modulators: Use the body's chemical messengers to stimulate the immune response. Over a dozen immune modulators are being studied in humans. See Fact Sheet 480 for more information.

*Year of approval in the USA. Revised July 25, 2006