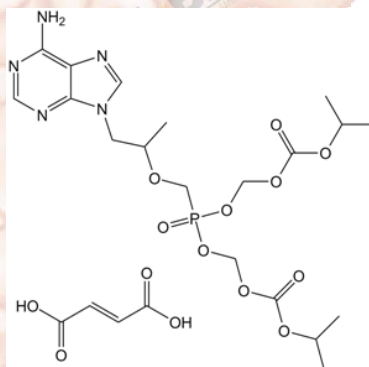


Product Data Sheet

Tenofovir Disoproxil Fumarate

Cat. No.:	A1755
CAS No.:	202138-50-9
Formula:	C ₁₉ H ₃₀ N ₅ O ₁₀ P·C ₄ H ₄ O ₄
M.Wt:	635.51
Synonyms:	
Target:	Microbiology & Virology
Pathway:	Reverse Transcriptase
Storage:	Store at -20°C



Solvent & Solubility

≥31.78 mg/mL in DMSO; ≥2.615 mg/mL in H₂O with gentle warming and ultrasonic; ≥8.48 mg/mL in EtOH with ultrasonic

In Vitro

Preparing Stock Solutions	Solvent	Mass		
		1mg	5mg	10mg
	Concentration			
	1 mM	1.5735 mL	7.8677 mL	15.7354 mL
	5 mM	0.3147 mL	1.5735 mL	3.1471 mL
	10 mM	0.1574 mL	0.7868 mL	1.5735 mL

Please refer to the solubility information to select the appropriate solvent.

Biological Activity

Shortsummary

Antiretroviral agent(HIV-1 RT inhibitor)

IC₅₀ & Target

Cell Viability Assay

In Vitro

Cell Line:	MT-2 cells and PBMCs
Preparation method:	The solubility of this compound in DMSO is > 31.8 mg/mL. General tips for obtaining a higher concentration: Please warm the tube at 37 °C for 10 minutes and/or shake it in the ultrasonic bath for a while. Stock solution can be stored below - 20 °C for several months.

	Reacting conditions:	0.007 μ M or 0.005 μ M
	Applications:	In MT-2 cells and PBMCs, Tenofovir Disoproxil Fumarate inhibited HIV replication with the EC50 values of 0.007 μ M and 0.005 μ M, respectively. The anti-HIV activity of Tenofovir Disoproxil Fumarate was shown to be 36- to 90-fold greater than that of Tenofovir.
In Vivo	Animal experiment	
	Applications:	

Product Citations

See more customer validations on www.apexbt.com.

References

[1]. Fung HB, Stone EA, Piacenti FJ. Tenofovir disoproxil fumarate: a nucleotide reverse transcriptase inhibitor for the treatment of HIV infection. Clin Ther. 2002 Oct;24(10):1515-48.

Caution

FOR RESEARCH PURPOSES ONLY.

NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

Specific storage and handling information for each product is indicated on the product datasheet. Most APExBIO products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Short-term storage of many products are stable in the short-term at temperatures that differ from that required for long-term storage. We ensure that the product is shipped under conditions that will maintain the quality of the reagents. Upon receipt of the product, follow the storage recommendations on the product data sheet.

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