

Product Name: Ritonavir Revision Date: 01/10/2021

Product Data Sheet

Ritonavir

Cat. No.: A8203

CAS No.: 155213-67-5

Formula: C37H48N6O5S2

M.Wt: 720.9

Synonyms: Abbott 84538, ABT-538, Ritonavir

Target: Proteases

Pathway: HIV Protease

Storage: Store at -20°C

Solvent & Solubility

 \geqslant 26 mg/mL in DMSO with gentle warming; insoluble in H2O; \geqslant 9.02 mg/mL in EtOH

In Vitro

Preparing Stock Solutions	Solvent Concentration	1mg	5mg	10mg
	1 mM	1.3872 mL	6.9358 mL	13.8715 mL
	5 mM	0.2774 mL	1.3872 mL	2.7743 mL
	10 mM	0.1387 mL	0.6936 mL	1.3872 mL

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

Biological Activity

Shortsummary	HIV protease inhibitor	
IC ₅₀ & Target		
In Vitro	Cell Viability Assay	Control of the Contro
	Preparation method:	The solubility of this compound in DMSO is > 10 mM. 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 ~ 0.16 μM
	Applications:	Ritonavir potently inhibited the activity of laboratory and clinical strains of HIV-1

		with the EC50 values ranging from 0.022 to 0.13 μM. Moreover, Ritonavir also efficiently inhibited the activity of HIV-2, with the EC50 value of 0.16 μM.		
	Animal experiment			
In Vivo	Animal models:	Male SD rats		
	Dosage form:	10 mg/kg; p.o.		
	Applications:	In rats, oral administration of 10 mg/kg Ritonavir resulted in prolonged		
	PERM	absorption (tmax = 2.0 hrs). The peak of plasma Ritonavir concentration was >		
	Sales Land Care	100 folds of the EC50 value. The calculated oral bioavailability reached 78%.		
	Other notes:	Please test the solubility of all compounds indoor, and the actual solubility may		
		slightly differ with the theoretical value. This is caused by an experimental		
		system error and it is normal.		

Product Citations

See more customer validations on www.apexbt.com.

References

[1]. Kempf DJ, Marsh KC, Denissen JF, McDonald E, Vasavanonda S, Flentge CA, Green BE, Fino L, Park CH, Kong XP, et al. ABT-538 is a potent inhibitor of human immunodeficiency virus protease and has high oral bioavailability in humans. Proc Natl Acad Sci U S A. 1995 Mar 28;92(7):2484-8.

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. Shortterm 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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