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DATASHEET

Ritonavir

Product overview

Name	Ritonavir
Cat No	HB6070
Alternative names	ABT-538 , A-84538 , Abbot 84538
Biological action	Inhibitor
Purity	>98%
Description	HIV-1 and HIV-2 protease inhibitor

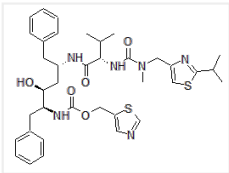
Biological Data

Biological description	HIV-1 and HIV-2 protease inhibitor, frequently used in immunometabolism research. Potentially binds and inhibits the CEP_C30 (coronavirus endopeptidase C30) of SARS-CoV-2 and when used with lopinavir has shown to improve animal models of MERS-CoV. Also shows antitumour activity and induces apoptosis.
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Solubility & Handling

Storage instructions	-20 °C
Solubility overview	Soluble in DMSO (20mM, gentle warming) and ethanol (10mM)
Important	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use

Chemical Data

Chemical name	5-Thiazolylmethyl (3S,4S,6S,9S)-4-hydroxy-12-methyl-9- (1-methylethyl)-13-[2-(1-methylethyl)-4-thiazolyl]-8,11-dioxo-3,6-bis (phenylmethyl)-2,7,10,12-tetraazatridecanoate
Molecular Weight	720.94
Chemical structure	
Molecular Formula	C ₃₇ H ₄₈ N ₆ O ₅ S ₂
CAS Number	155213-67-5
PubChem identifier	392622
SMILES	<chem>O[C@@H](C[C@@H](NC([C@H](C(C)C)NC(N(C)CC1=CSC(C)(C)=N1)=O)CC2=CC=CC=C2)[C@@H](NC(OCC3=CN=CS3)=O)CC4=CC=CC=C4</chem>
InChi	InChI=1S/C37H48N6O5S2/c1-24(2)33(42-36(46)43(5)20-29-22-49-35(40-29)25(3)4)34(45)39-28(16-26-12-8-6-9-13-26)18-32(44)31(17-27-14-10-7-11-15-27)41-37(47)48-21-30-19-38-23-50-30/h6-15, 19,22-25,28,31-33,44H,16-18,20-21H2,1-5H3,(H,39,45)(H,41,47)(H,42,46)/t28
InChiKey	NCDNXCXDXHOMX-XGKFQTDJSA-N
MDL number	MFCD00927142

References

Predicting commercially available antiviral drugs that may act on the novel coronavirus (SARS-CoV-2) through a drug-target interaction deep learning model

Beck BR *et al* (2020) *Comput Struct Biotechnol J* 18

PubMedID [32280433](#)

Pharmacological and therapeutic properties of ritonavir-boosted protease inhibitor therapy in HIV-infected patients

Zeldin RK *et al* (2004) *J Antimicrob Chemother* 53(1)

PubMedID [14657084](#)

Treatment With Lopinavir/Ritonavir or Interferon- β 1b Improves Outcome of MERS-CoV Infection in a Nonhuman Primate Model of Common Marmoset

Chan JF *et al* (2015) *J Infect Dis* 212(12)

PubMedID [26198719](#)
