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DATASHEET

Indinavir Sulfate

Product overview

Name	Indinavir Sulfate
Cat No	HB7480
Purity	>98%
Description	Antiretroviral protease inhibitor

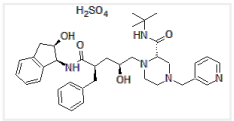
Biological Data

Biological description	Orally activ antiretroviral protease inhibitor which inhibits HIV-1 protease and suppresses HIV replication. It also induces glutathione export from astrocytes. Recently investigated as part of COVID-19 compound repurposing.

Solubility & Handling

Storage instructions	RT
Solubility overview	Soluble in water (15 mg/ml)
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	(2S)-1-[(2S,4R)-4-benzyl-2-hydroxy-5-[[(1S,2R)-2-hydroxy-2,3-dihydro-1H-inden-1-yl]amino]-5-oxopentyl]-N-tert-butyl-4-(pyridin-3-ylmethyl)piperazine-2-carboxamide sulphate salt
Molecular Weight	711.87
Chemical structure	
Molecular Formula	$C_{36}H_{47}N_5O_4.H_2SO_4$
CAS Number	157810-81-6
PubChem identifier	5462355
SMILES	CC(C)(C)NC(=O)[C@@H]1CN(CCN1C[C@H](C[C@@H](CC2=CC=CC=C2)C(=O)N[C@@H]3[C@@H](CC4=CC=CC=C34)O)O)CC5=CN=CC=C5.OS(=O)(=O)O
InChi	InChI=1S/C36H47N5O4.H2O4S/c1-36(2,3)39-35(45)31-24-40(22-26-12-9-15-37-21-26)16-17-41(31)23-29(42)19-28(18-25-10-5-4-6-11-25)34(44)38-33-30-14-8-7-13-27(30)20-32(33)43;1-5(2,3)4/h4-15,21,28-29,31-33,42-43H,16-20,22-24H2,1-3H3,(H,38,44)(H,39,45);(H2,1,2,3,
InChiKey	NUBQKPWHXMGDLP-HZUPJJOCSA-N
Appearance	White solid

References

Disposition of indinavir, a potent HIV-1 protease inhibitor, after an oral dose in humans

Balani et al (1996) Clinical Trial 24(12)

PubMedID 8971147

Indinavir acutely inhibits insulin-stimulated glucose disposal in humans: a randomized, placebo-controlled study

Grunfeld et al (2002) Clinical Trial 16(5)
PubMedID 11964551

HIV protease inhibitor nelfinavir inhibits replication of SARS-associated coronavirus

Yamamoto et al (2004) Biochem Biophys Res Commun . 18(3)
PubMedID 15144898