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## DATASHEET

Indinavir Sulfate

### Product overview

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

### Biological Data

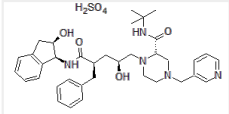
**Biological description** Orally active antiretroviral protease inhibitor which inhibits HIV-1 protease and suppresses HIV replication. It also induces glutathione export from astrocytes.

Recently investigated as part of COVID-19 compound repurposing.

### Solubility & Handling

<b>Storage instructions</b>	RT
<b>Solubility overview</b>	Soluble in water (15 mg/ml)
<b>Important</b>	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use

### Chemical Data

<b>Chemical name</b>	(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 sulfate salt
<b>Molecular Weight</b>	711.87
<b>Chemical structure</b>	
<b>Molecular Formula</b>	C <sub>36</sub> H <sub>47</sub> N <sub>5</sub> O <sub>4</sub> ·H <sub>2</sub> SO <sub>4</sub>
<b>CAS Number</b>	157810-81-6
<b>PubChem identifier</b>	5462355
<b>SMILES</b>	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
<b>InChi</b>	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,
<b>InChiKey</b>	NUBQKPWHXMGDLP-HZUPJJOCSA-N
<b>Appearance</b>	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

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