

Indinavir sulfate

Chemical Properties

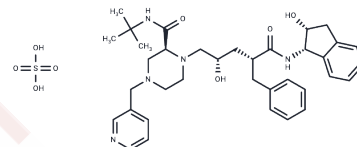
CAS No. : 157810-81-6

Formula: C₃₆H₄₉N₅O₈S

Molecular Weight: 711.87

Storage: Store at low temperature, Store under nitrogen
Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	Indinavir sulfate (L735524 sulfate) is a HIV protease inhibitor. It inhibits the HIV-1 protease with an IC ₅₀ value of 0.41 nM and K _i value of 0.24 nM.
Targets(IC ₅₀)	Apoptosis, MMP, HIV Protease, SARS-CoV
In vitro	At low concentrations (0.0003-10 μmol/l) indinavir acts as a positive allosteric modulator (EC ₅₀ ≈ 0.021 μmol/l), whereas at concentrations greater than 10 μmol/l (30-100 μmol/l) indinavir acts as an inhibitor of the α ₇ -nicotinic acetylcholine receptor.

Solubility Information

Solubility	DMSO: 125 mg/mL (175.59 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 4 mg/mL (5.62 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.4048 mL	7.0238 mL	14.0475 mL
5 mM	0.281 mL	1.4048 mL	2.8095 mL
10 mM	0.1405 mL	0.7024 mL	1.4048 mL
50 mM	0.0281 mL	0.1405 mL	0.281 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Ekins S , Mathews P , Saito E K , et al. α 7-Nicotinic acetylcholine receptor inhibition by indinavir: implications for cognitive dysfunction in treated HIV disease[J]. AIDS (London, England), 2017, 31(8).

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481