

## Saquinavir mesylate

### Chemical Properties

CAS No. : 149845-06-7

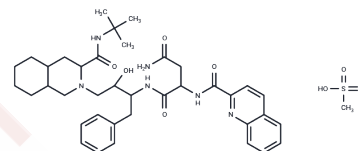
Formula: C<sub>39</sub>H<sub>54</sub>N<sub>6</sub>O<sub>8</sub>S

Molecular Weight: 766.9

Keep away from direct sunlight

Storage: 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	Saquinavir mesylate (Ro 31-8959/003) is an Inhibitor of HIV Protease used in antiretroviral therapy
Targets(IC50)	Apoptosis, Calcium Channel, HIV Protease, NO Synthase, Autophagy, Interleukin, JNK, p38 MAPK, ROS, TLR

### Solubility Information

Solubility	DMSO: 20 mg/mL (26.08 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: 2 mg/mL (2.61 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	1.304 mL	6.5198 mL	13.0395 mL
5 mM	0.2608 mL	1.304 mL	2.6079 mL
10 mM	0.1304 mL	0.652 mL	1.304 mL
50 mM	0.0261 mL	0.1304 mL	0.2608 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

Branham ML, Moyo T, Govender T. Preparation and solid-state characterization of ball milled saquinavir mesylate for solubility enhancement. Eur J Pharm Biopharm. 2012 Jan;80(1):194-202.

Kaldor et al (1995) Isophthalic acid derivatives: amino acid surrogates for the inhibition of HIV-1 protease. Bioorg. Med.Chem.Lett. 5 721.

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