Saquinavir (Ro 31-8959)

Catalog No.C14371 Batch:C1437103

Product Datasheet

Technical Data

Formula	$C_{38}H_{50}N_6O_5$					
Molecular Weight	670.84	**CAS No.**	127779-20-8			
Solubility (25°C)*	In vitro	DMSO	100 mg/mL (149.06 mM)			
		Ethanol	25 mg/mL (37.26 mM)			
		Water	Insoluble			
	In vivo (Add solvents to the product individually and in order)	Oral Administration	Homogeneous suspension	CMC-NA	≥5mg/ml	Taking the 1 mL working solution as an example, add 5 mg of this product to 1 ml of CMC-Na solution, mix evenly to obtain a homogeneous suspension with a final concentration of 5 mg/ml.

* <1 mg/ml means slightly soluble or insoluble.
* Please note that Capsid Bio tests the solubility of all compounds in-house, and the actual solubility may differ slightly from published values. This is normal and is due to slight batch-to-batch variations.
* Room temperature shipping (Stability testing shows this product can be shipped at 2-8°C for storage purposes.)

Preparing Stock Solutions

Biological Activity

Description	Saquinavir (Ro 31-8959,SAQ) is a potent and selective inhibitor of **HIV proteinase** with a mean IC50 of 2.7 nM in JM cells.
Targets	HIV proteinase [1] (in JM cells) 2.7 nM
In vitro	Saquinavir (Ro 31-8959) is an effective selective HIV protease inhibitor with an average IC50 of 2.7 nM in JM cells, which inhibits the spread of HIV infection and the production of cytopathic effects.^{[1]}

Protocol (from reference)

Cell Assay:[1]

- **Cell lines**
  JM cells
- **Concentrations**
  0.5-100 nM
- **Incubation Time**
  3 days
- **Method**
  JM cells (2 × 10^5 cells/ml) were exposed to HIV-1 (GB8) at a multiplicity of infection (MOI) of 0.01 syncytium-forming units/cell. Aliquots (0.2 ml) of cells were placed in microtitre wells with appropriate dilutions of Ro 31-8959 added to 5 replicate cultures. After incubation for 3 days at 37°C in a humidified atmosphere of 5% CO2 in air, syncytia were counted.

References

https://pubmed.ncbi.nlm.nih.gov/1810306/

RETURN POLICY

Capsid Bio's Unconditional Return Policy ensures a smooth online shopping experience for our customers. If you are in any way unsatisfied with your purchase, you may return any item(s) within 7 days of receiving it. In the event of product quality issues, either protocol related or product related problems, you may return any item(s) within 365 days from the original purchase date. Please follow the instructions below when returning products.

SHIPPING & STORAGE

Capsid Bio products are transported at room temperature. If you receive the product at room temperature, please rest assured, the Capsid Bio Quality Inspection Department has conducted experiments to verify that the normal temperature placement of one month will not affect the biological activity of powder products. After collecting, please store the product according to the requirements described in the datasheet. Most Capsid Bio products are stable under the recommended conditions.

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