Product Information

Saquinavir (mesylate)
Item No. 9001893

CAS Registry No.: 149845-06-7
Formal Name: (2S)-N-[1-(1S,2R)-3-[[3(S,4aS,8aS)-3-[[1,1-dimethylylethyl]amino]carbonyl]octahydro-2(1H)-isoquinolinyl]-2-hydroxy-1-(phenylmethyl)propyl]-2-[(2-quinolinylcarbonyl)amino]-butanediamide, monomethanesulfonate

Synonyms: Invirase®, Ro 31-8959/003
MF: C38H50N6O5 • CH3SO3H
FW: 767.0
Purity: ≥98%
Stability: ≥2 years at -20°C
Supplied as: A crystalline solid
UV/Vis: λ_max: 206, 239, 291 nm

Laboratory Procedures

For long term storage, we suggest that saquinavir (mesylate) be stored as supplied at -20°C. It should be stable for at least two years.

Saquinavir (mesylate) is supplied as a crystalline solid. A stock solution may be made by dissolving the saquinavir (mesylate) in the solvent of choice. Saquinavir (mesylate) is soluble in organic solvents such as DMSO and methanol, which should be purged with an inert gas. The solubility of saquinavir (mesylate) in these solvents is approximately 1 mg/ml.

Saquinavir (mesylate) is sparingly soluble in aqueous solutions. To enhance aqueous solubility, dilute the organic solvent solution into aqueous buffers or isotonic saline. If performing biological experiments, ensure the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. We do not recommend storing the aqueous solution for more than one day.

Saquinavir is an HIV protease inhibitor (K_i = 0.12 and < 0.1 nM for HIV-1 and HIV-2 protease, respectively) that exhibits antiviral activity with low cytotoxicity.1-2 When co-administered with 50 mg/kg ritonavir (Item No. 13872), the metabolism by CYP3A.3 bioavailability of 20 mg/kg saquinavir has been shown to increase 325-fold in mice through a mechanism that inhibits its oral bioavailability of drugs in mice. Drug Metab. Pharmacokinet. 28(2), 144-152 (2013).

References

Related Products
For a list of related products please visit: www.caymanchem.com/catalog/9001893

WARNING: This product is for laboratory research only; not for administration to humans. Not for human or veterinary diagnostic or therapeutic use.