



## NIH AIDS Reagent Program

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### DATA SHEET

<b>Reagent:</b>	Saquinavir
<b>Catalog Number:</b>	4658
<b>Lot Number:</b>	01989
<b>Release Category:</b>	A
<b>Provided:</b>	20 mg
<b>Chemical Name:</b>	N-tert-butyl-decahydro-2-[2(R)-hydroxy-4-phenyl-3(S)-[N-(2-quinolycarbonyl)-L-asparaginy]amino]butyl]- (4aS,8aS)-isoquinoline-3(S)-carboxamide
<b>Empirical Formula:</b>	C <sub>38</sub> H <sub>50</sub> N <sub>6</sub> O <sub>5</sub> · 0.05 CH <sub>2</sub> Cl <sub>2</sub>
<b>Molecular Weight:</b>	675.10 for material containing 0.05 mol CH <sub>2</sub> Cl <sub>2</sub>
<b>CAS Num:</b>	127779-20-8
<b>Purity:</b>	>99.3% (purity by HPLC)
<b>Solubility:</b>	DMSO; methanol; insoluble in water.
<b>Mechanical Action:</b>	Saquinavir is an inhibitor of HIV protease. HIV protease is an enzyme required for the proteolytic cleavage of viral polyprotein precursors into individual functional proteins found in infectious HIV. Saquinavir is a peptide-like substrate analogue that binds to the protease active site and inhibits the activity of the enzyme. Saquinavir inhibition prevents cleavage of the viral polyproteins resulting in the formation of immature noninfectious virus particles.

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ALL RECIPIENTS OF THIS MATERIAL MUST COMPLY WITH ALL APPLICABLE BIOLOGICAL, CHEMICAL, AND/OR RADIOCHEMICAL SAFETY STANDARDS INCLUDING SPECIAL PRACTICES, EQUIPMENT, FACILITIES, AND REGULATIONS. NOT FOR USE IN HUMANS.

**Recommended Storage:** Room temperature. Once resuspended, working aliquots can be stored at  $-20^{\circ}\text{C}$ .

**Contributor:** Division of AIDS, NIAID.

**NOTE:** Acknowledgment for publications should read "The following reagent was obtained through the NIH AIDS Reagent Program, Division of AIDS, NIAID, NIH: Saquinavir."

**This compound is restricted for "research purposes only" and is limited to 40 mg per requester per year. Not available for release to commercial organizations outside of the USA.**

**Recipient agrees that the reagent (Saquinavir) use is permitted only as a standard for in vitro and/or studies in animals for inhibition of HIV replication.**

**Last Updated** July 24, 2018

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