Saquinavir

Catalog No. HRP-4658
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For research use only. Not for use in humans.

Contributor:
NIH HIV Reagent Program

Manufacturer:
Biosynth International, Inc., Naperville, Illinois, USA

Product Description:
Saquinavir (brand names: Invirase® and Fortovase®) is an inhibitor of human immunodeficiency virus (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 analog 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.[1]

Material Provided:
Each vial contains approximately 20 mg of saquinavir.

Packaging/Storage:
HRP-10198 was packaged in glass vials. The product is provided at room temperature and should be stored at 4°C. Once resuspended, working aliquots can be stored at -20°C. The vial should be centrifuged prior to opening.

Solubility:
HRP-4658 is soluble in DMSO and methanol; it is insoluble in water.

Citation:
Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: Saquinavir, HRP-4658."

Biosafety Level: 1
Appropriate safety procedures should always be used with this material. Laboratory safety is discussed in the following publication: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control and Prevention, and National Institutes of Health. Biosafety in Microbiological and Biomedical Laboratories (BMBL). Current Edition. Washington, DC: U.S. Government Printing Office.

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References:
1. Park, S., et al. "HIV-1 Protease Inhibitors Slow HPV16-Driven Cell Proliferation through Targeted Depletion of Viral E6 and E7 Oncoproteins." Cancers 13 (2021): 949. PubMed: 33668328.

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