



LKT Laboratories, Inc.

Lopinavir

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Product Information

Product ID L5862

CAS No. 192725-17-0

Chemical Name

Synonym

Formula $C_{37}H_{48}N_4O_5$

Formula Wt. 628.81

Melting Point

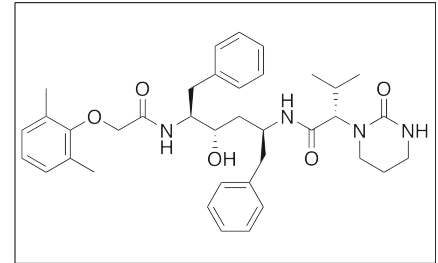
Purity $\geq 98\%$

Solubility DMSO to 126 mg/mL,
ethanol to 126 mg/mL,
ethyl acetate

Store Temp Ambient

Ship Temp Ambient

Description Lopinavir is an HIV protease inhibitor that displays antiviral and anticancer activities. In vitro, lopinavir inhibits sarco/endoplasmic reticulum Ca^{2+} -ATPase (SERCA), decreasing intracellular Ca^{2+} levels. In vivo, lopinavir's inhibition of SERCA induces endoplasmic reticulum stress. In human papilloma virus (HPV)-positive cervical cancer cells, lopinavir upregulates ribonuclease L protein (RNASEL), potentially inducing cell death. In meningioma cells, lopinavir induces cell cycle arrest and inhibits cell growth.



Bulk quantities available upon request

Product ID	Size
L5862	100 mg
L5862	500 mg
L5862	1 g
L5862	5 g

References Kao E, Shinohara M, Feng M, et al. Human immunodeficiency virus protease inhibitors modulate Ca^{2+} homeostasis and potentiate alcoholic stress and injury in mice and primary mouse and human hepatocytes. *Hepatology*. 2012 Aug;56(2):594-604. PMID: 22407670.

Batman G, Oliver AW, Zehbe I, et al. Lopinavir up-regulates expression of the antiviral protein ribonuclease L in human papillomavirus-positive cervical carcinoma cells. *Antivir Ther*. 2011;16(4):515-25. PMID: 21685539.

Johnson MD, O'Connell M, Pilcher W. Lopinavir inhibits meningioma cell proliferation by Akt independent mechanism. *J Neurooncol*. 2011 Feb;101(3):441-8. PMID: 20596751.

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.