LKT Laboratories, Inc.

Lopinavir

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Product Information

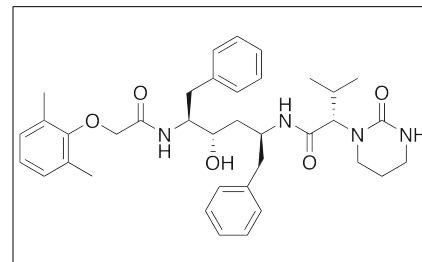|	
Product ID	L5862
CAS No.	192725-17-0
Chemical Name	(2S)-N-[(2S,4S,5S)-5-[[2-(2,6-dimethylphenoxy)acetyl]amino]-4-hydroxy-1,6-diphenylhexan-2-yl]-3-methyl-2-(2-oxo-1,3-diazinan-1-yl)butanamide
Synonym	Aluviran, Kaletra
Formula	$C_{37}H_{48}N_4O_5$
Formula Wt.	628.81
Melting Point	
Purity	≥98%
Solubility	DMSO to 126 mg/mL, ethanol to 126 mg/mL, ethyl acetate
Store Temp	Ambient
Ship Temp	Ambient

Pricing and Availability

Bulk quanitites available upon request

Product ID	Size	List Price
L5862	100 mg	$86.00
L5862	500 mg	$179.70
L5862	1 g	$239.50
L5862	5 g	$910.50

Description Lopinavir is an HIV protease inhibitor that displays antiviral and anticancer activities. In vitro, lopinavir inhibits sarco/endoplasmic reticulum Ca2+-ATPase (SERCA), decreasing intracellular Ca2+ 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.

References Kao E, Shinohara M, Feng M, et al. Human immunodeficiency virus protease inhibitors modulate Ca2+ 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.