



Certificate of Analysis

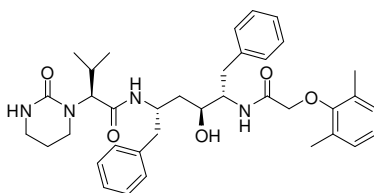
Axon Catalogue ID: 3138 **Batch Number:** 1

Product Name: Lopinavir

Alternative Name(s): ABT-378

IUPAC Name: (S)-N-((2S,4S,5S)-5-(2-(2,6-Dimethylphenoxy)acetamido)-4-hydroxy-1,6-diphenylhexan-2-yl)-3-methyl-2-(2-oxotetrahydropyrimidin-1(2H)-yl)butanamide

Structure:



Amount:

CAS number(s): 192725-17-0

Molecular Formula: C₃₇H₄₈N₄O₅ **Molecular Weight:** 628.80

Batch Molecular Formula: C₃₇H₄₈N₄O₅·1.5H₂O **Batch Molecular Weight:** 655.82

Appearance: White solid **Observed mp:** 100.3 - 101.2 °C

TLC (R_f): 0.59 DCM/MeOH (9:1)

Chemical Purity: 99.9%

Optical Purity (ee): Optically pure

Optical Rotation (Det.): [α]_D = -25.3° with c = 0.5 in MeOH

¹H-NMR (300 MHz): Analytical data confirm chemical structure

Mass Spec: Analytical data confirm chemical structure

Microanalysis: Calculated: C 67.76, H 7.84, N 8.54; Found: C 67.93, H 7.82, N 8.52

Storage Conditions: Store at +4 °C

Solubility Data:	Solvent	Solubility (mg/ml)	Solubility (mM)	Remarks
	Water	0.0	0.0	Insoluble
	0.1N NaOH (aq)			Not Tested
	0.1N HCl (aq)			Not Tested
	DMSO	64.0	97.6	
	EtOH			Not Tested

Remarks:

QC Date: 27-5-2020

The purity of Axon Ligands is confirmed by HPLC, MS, NMR and/or microanalysis. Analytical data are available upon request. Request can be submitted by e-mail to info@axonmedchem.com indicating Catalogue ID and Batch number.

Caution: Not fully tested. For research purposes only