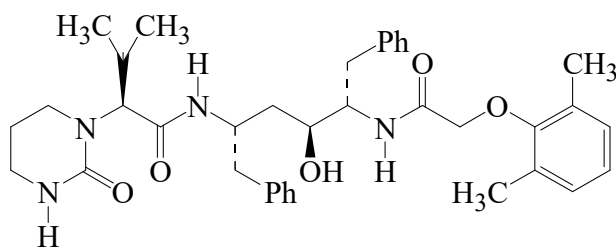




>>Entry Name: Lopinavir, INN

Synonym(s): *N*-[4-[[[(2,6-Dimethylphenoxy)acetyl]amino]-3-hydroxy-5-phenyl-1-(phenylmethyl)pentyl]tetrahydro- α -(1-methylethyl)-2-oxo-1(2*H*)-pyrimidineacetamide, 9Cl. ABT 378



Molecular Formula: C₃₇H₄₈N₄O₅

Molecular Weight: 628.81

Accurate Mass: 628.362471

Percentage Composition: C 70.67%; H 7.69%; N 8.91%; O 12.72%

Biological Use/Importance: Antiviral agent. HIV-1 protease inhibitor

Development Status: Marketed drug. Approved by FDA (2000)

Other Data: Related to Ritonavir [NVM00-J](#)

>>Variant: (*all-S*)-form

CAS Registry Number: 192725-17-0

Molecular Formula: C₃₇H₄₈N₄O₅

Molecular Weight: 628.81

Accurate Mass: 628.362471

Percentage Composition: C 70.67%; H 7.69%; N 8.91%; O 12.72%

Physical Description: Cryst. (EtOAc)

Melting Point: Mp 124-127°

References:

Pat. Coop. Treaty (WIPO), 1997, *Abbott*, 97 21 683; *CA*, **127**, 121994b, (*synth, pharmacol*)

Carrillo, A. *et al.*, *J. Virol.*, 1998, **72**, 7532-7541, (*activity*)

Stoner, E.J. *et al.*, *Org. Process Res. Dev.*, 1999, **3**, 145-148; 2000, **4**, 264-269, (*synth, ir, pmr, cmr, ms*)

Hurst, M. *et al.*, *Drugs*, 2000, **60**, 1371-1379, (*rev*)