



Product Information

HIV protease inhibitor Nelfinavir, Purity $\geq 98\%$

Cat. No.: X24-06-ZQ932

Size: 5 mg; 10 mg; 50 mg

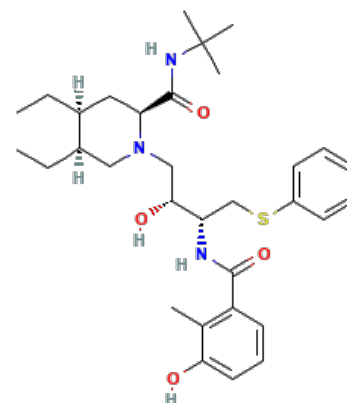
MDL: MFCD01938163

CAS Number: 159989-64-7

Compound CID: 64143

Synonym: 159989-64-7; HIV protease inhibitor; Viracept; AG 1341; AG-1341; AG1341

This product is for research use only and is not intended for diagnostic use.



Product Information

Description	Nelfinavir blocks the protease enzyme, essential for the maturation and replication of HIV, playing a key role in highly active antiretroviral therapy (HAART). It targets HIV-1.
Molecular Weight	567.78
Molecular Formula	C ₃₂ H ₄₅ N ₃ O ₄ S
Targets	HIV-1
IUPAC Name	(3 <i>S</i> ,4 <i>aS</i> ,8 <i>aS</i>)- <i>N</i> - <i>tert</i> -butyl-2-[(2 <i>R</i> ,3 <i>R</i>)-2-hydroxy-3-[(3-hydroxy-2-methylbenzoyl)amino]-4-phenylsulfanylbutyl]-3,4,4 <i>a</i> ,5,6,7,8,8 <i>a</i> -octahydro-1 <i>H</i> -isoquinoline-3-carboxamide
InChI	InChI=1S/C32H45N3O4S/c1-21-25(15-10-16-28(21)36)30(38)33-26(20-40-24-13-6-5-7-14-24)29(37)19-35-18-23-12-9-8-11-22(23)17-27(35)31(39)34-32(2,3)4/h5-7,10,13-16,22-23,26-27,29,36-37H,8-9,11-12,17-20H2,1-4H3,(H,33,38)(H,34,39)/t22-,23+,26-,27-,29+/m0/s1
InChI Key	QAGYKUNXZHXXKMR-HKWSIXNMSA-N
Canonical SMILES	CC1=C(C=CC=C1O)C(=O)NC(CSC2=CC=CC=C2)C(CN3CC4CCCCC4CC3C(=O)NC(C)(C)C)O
Isomeric SMILES	CC1=C(C=CC=C1O)C(=O)N[C@@H](CSC2=CC=CC=C2)[C@@H](CN3C[C@H]4CCCC[C@H]4C[C@H]3C(=O)NC(C)(C)C)O
Form	Lyophilized powder
Purity	$\geq 98\%$
Identity	Confirmed by NMR/HPLC/MS.
Stability	The product is stable for three years when stored at the recommended temperature in lyophilized powder.



Quality Level	Research grade
Applications	Nelfinavir is used as an HIV protease inhibitor to block the protease enzyme, crucial for the maturation of infectious virus particles.
Storage	Store at -20°C, and keep desiccated.
