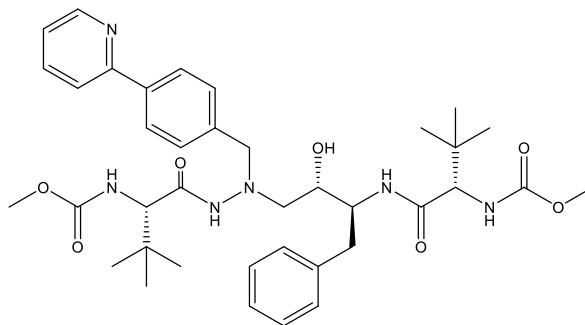


Catalog # 10-5630

Atazanavir

CAS# 198904-31-3

Methyl N-[(2S)-1-[2-[(2S,3S)-2-hydroxy-3-[[[(2S)-2-(methoxycarbonylamino)-3,3-dimethylbutanoyl]amino]-4-phenylbutyl]-2-[(4-pyridin-2-ylphenyl)methyl]hydrazinyl]-3,3-dimethyl-1-oxobutan-2-yl]carbamate; BMS 232632; CGP 73547; Latazanavir
Lot # X109534



Atazanavir is an azapeptide-based inhibitor of HIV protease ($K_i = 2.66 \text{ nM}$).¹ Inhibits SARS-CoV-2 main protease ($K_i = 703 \text{ nM}$), but not papain-like protease ($K_i = 9.87 \text{ }\mu\text{M}$).² Blocks SARS-CoV-2 replication and IL-6 / TNF α production *in vitro*.³ Also inhibits the liver enzyme UDP-glucuronyltransferase 1A1 (UGT1A1), $\text{IC}_{50} = 160 \text{ nM}$ for recombinant UGT1A1.⁴

- 1) Robinson *et al.* (2000), *BMS-232632, a highly potent human immunodeficiency virus protease inhibitor that can be used in combination with other available antiretroviral agents*; *Antimicrob. Agents Chemother.* **44** 2093
- 2) Chaves *et al.* (2021), *Atazanavir is a Competitive Inhibitor of SARS-CoV-2 M^{pro} , Impairing Variants Replication In Vitro and In Vivo*; *Pharmaceuticals (Basel)* **15** 21
- 3) Fintelman-Rodrigues *et al.* (2020), *Atazanavir, Alone or in Combination with Ritonavir, Inhibits SARS-CoV-2 Replication and Proinflammatory Cytokine Production*; *Antimicrob. Agents Chemother.* **64** e00825
- 4) Mullapudi *et al.* (2021), *UGT1A1 and UGT1A3 activity and inhibition in human liver and intestinal microsomes and a recombinant UGT system under similar assay conditions using selective substrates and inhibitors*; *Xenobiotica* **51** 1236

PHYSICAL DATA

Molecular Weight:	704.87
Molecular Formula:	$\text{C}_{38}\text{H}_{52}\text{N}_6\text{O}_7$
Purity:	>98% by HPLC
	NMR: (Conforms)
Solubility:	DMSO (45 mg/ml)
Physical Description:	White to off-white solid
Storage and Stability:	Store as supplied at -20°C for up to 2 years from the date of purchase. Solutions in DMSO may be stored at -20°C for up to 3 months.

Materials provided by Focus Biomolecules are for laboratory research use only and are not intended for human or veterinary applications.

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