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## Product Data Sheet

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Product Name: Atazanavir

Cat. No.: GC12945

**Chemical Properties**

Cas. No. 198904-31-3

Chemical Name 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

CC(C)

SMILES (C)C(C(=O)NC(CC1=CC=CC=C1)C(CN(CC2=CC=C(C=C2)C3=CC=CC=N3)NC(=O)C(C(C)(C)C)NC(=O)OC)O)NC(=O)OC

Formula C<sub>38</sub>H<sub>52</sub>N<sub>6</sub>O<sub>7</sub>

M.Wt 704.9

Solubility ≥ 28.6mg/mL in DMSO, ≥ 9.9 mg/mL in EtOH with ultrasonic Storage Store at -20°C

General For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the tips ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Evaluation sample solution : ship with blue ice All other available size: ship with RT , or Condition blue ice upon request.

Structure **Background**

Atazanavir is a novel and potent azapeptide protease inhibitor that specifically inhibits the human immunodeficiency virus type 1 (HIV-1) protease enzyme with inhibition constant  $K_i$  of 66 nmol/L and also inhibits the viral replication of HIV-1 with 50% effective concentration EC<sub>50</sub> ranging from 2.6 to 5.3 nmol/L. Atazanavir binds to HIV-1 protease preventing the cleavage of gag and gag-pol polyproteins, which results in the formation of immature virions in HIV-1-infected cells. Atazanavir has a different C-2 symmetric chemical structure and a generally greater antiretroviral potency in various HIV strains compared to other protease inhibitors, including indinavir, nelfinavir, ritonavir, saquinavir and amprenavir.

*Reference*

[1].Fuster D, Clotet B. Review of atazanavir: a novel HIV protease inhibitor. Expert Opin Pharmacother. 2005 Aug;6(9):1565-72.

[2].Croom KF, Dhillon S, Keam SJ. Atazanavir: a review of its use in the management of HIV-1 infection. Drugs. 2009 May 29;69(8):1107-40. doi: 10.2165/00003495-200969080-00009.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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