

PL 100

Chemical Properties

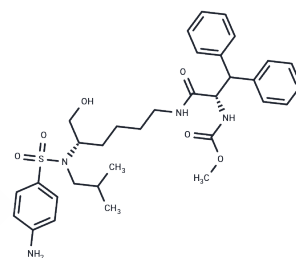
CAS No. : 612547-11-2

Formula: C₃₃H₄₄N₄O₆S

Molecular Weight: 624.79

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	PL 100 could inhibit HIV-1 protease.
Targets(IC50)	Others,HIV Protease

Solubility Information

Solubility	DMSO: Soluble, (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.6005 mL	8.0027 mL	16.0054 mL
5 mM	0.3201 mL	1.6005 mL	3.2011 mL
10 mM	0.1601 mL	0.8003 mL	1.6005 mL
50 mM	0.032 mL	0.1601 mL	0.3201 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

- Asahchop EL, Oliveira M, Quashie PK, Moisi D, Martinez-Cajas JL, Brenner BG, Tremblay CL, Wainberg MA. In vitro and structural evaluation of PL-100 as a potential second-generation HIV-1 protease inhibitor. *J Antimicrob Chemother.* 2013 Jan;68(1):105-12. doi: 10.1093/jac/dks342. Epub 2012 Sep 3. PubMed PMID: 22945918.
- Dandache S, Coburn CA, Oliveira M, Allison TJ, Holloway MK, Wu JJ, Stranix BR, Panchal C, Wainberg MA, Vacca JP. PL-100, a novel HIV-1 protease inhibitor displaying a high genetic barrier to resistance: an in vitro selection study. *J Med Virol.* 2008 Dec;80(12):2053-63. doi: 10.1002/jmv.21329. PubMed PMID: 19040279.
- Asahchop EL, Oliveira M, Brenner BG, Martinez-Cajas JL, Toni Td, Ntemgwa M, Moisi D, Dandache S, Stranix B, Tremblay CL, Wainberg MA. Tissue culture drug resistance analysis of a novel HIV-1 protease inhibitor termed PL-100 in non-B HIV-1 subtypes. *Antiviral Res.* 2010 Sep;87(3):367-72. doi: 10.1016/j.antiviral.2010.06.001. Epub 2010 Jun 10. PubMed PMID: 20541566.
- Dandache S, Sévigny G, Yelle J, Stranix BR, Parkin N, Schapiro JM, Wainberg MA, Wu JJ. In vitro antiviral activity and cross-resistance profile of PL-100, a novel protease inhibitor of human immunodeficiency virus type 1. *Antimicrob Agents Chemother.* 2007 Nov;51(11):4036-43. Epub 2007 Jul 16. PubMed PMID: 17638694; PubMed Central PMCID: PMC2151432.

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