

A 77003

Chemical Properties

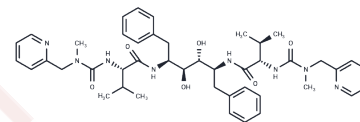
CAS No. : 134878-17-4

Formula: C₄₄H₅₈N₈O₆

Molecular Weight: 794.98

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 | A 77003 is a HIV-1 protease inhibitor. A77003 impairs HIV-1 protease-mediated Gag processing. |
| Targets(IC50) | Others,HIV Protease |

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|-----------|------------|
| 1 mM | 1.2579 mL | 6.2895 mL | 12.5789 mL |
| 5 mM | 0.2516 mL | 1.2579 mL | 2.5158 mL |
| 10 mM | 0.1258 mL | 0.6289 mL | 1.2579 mL |
| 50 mM | 0.0252 mL | 0.1258 mL | 0.2516 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

Bilello JA, Bilello PA, Kort JJ, Dudley MN, Leonard J, Drusano GL. Efficacy of constant infusion of A-77003, an inhibitor of the human immunodeficiency virus type 1 (HIV-1) protease, in limiting acute HIV-1 infection in vitro. *Antimicrob Agents Chemother.* 1995 Nov;39(11):2523-7. PubMed PMID: 8585738; PubMed Central PMCID: PMC162977.

Drusano GL, Prichard M, Bilello PA, Bilello JA. Modeling combinations of antiretroviral agents in vitro with integration of pharmacokinetics: guidance in regimen choice for clinical trial evaluation. *Antimicrob Agents Chemother.* 1996 May;40(5):1143-7. PubMed PMID: 8723455; PubMed Central PMCID: PMC163280.

Ho DD, Toyoshima T, Mo H, Kempf DJ, Norbeck D, Chen CM, Wideburg NE, Burt SK, Erickson JW, Singh MK. Characterization of human immunodeficiency virus type 1 variants with increased resistance to a C2-symmetric protease inhibitor. *J Virol.* 1994 Mar;68(3):2016-20. PubMed PMID: 8107264; PubMed Central PMCID: PMC236669.

Rose RE, Gong YF, Greytak JA, Bechtold CM, Terry BJ, Robinson BS, Alam M, Colonno RJ, Lin PF. Human immunodeficiency virus type 1 viral background plays a major role in development of resistance to protease inhibitors. *Proc Natl Acad Sci U S A.* 1996 Feb 20;93(4):1648-53. PubMed PMID: 8643685; PubMed Central PMCID: PMC39996.

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481