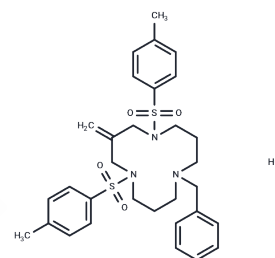


Cyclotriazadisulfonamide hydrochloride

Chemical Properties

CAS No. : 392287-03-5
 Formula: C₃₁H₄₀ClN₃O₄S₂
 Molecular Weight: 618.25
 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	Cyclotriazadisulfonamide hydrochloride is a selective inhibitor of CD4-targeted HIV entry and inhibits the co-translational translocation of human CD4 into the ER lumen in a signal peptide-dependent way.
Targets(IC50)	HIV Protease
In vitro	Cyclotriazadisulfonamide hydrochloride exhibits an EC ₅₀ of 0.4 µg/mL for CD4 in MO-DC cells. Cyclotriazadisulfonamide hydrochloride (10 µg/mL) results in 83% downregulation of cell surface CD4. Cyclotriazadisulfonamide hydrochloride prevents MT-4 cells from HIV-1 and SIV infection with EC ₅₀ s of 0.7 and 1.2 g/ml, respectively. Cyclotriazadisulfonamide hydrochloride significantly decreases the amount of cell surface CD4 -the main receptor for HIV -without altering the expression of any other cellular receptor examined so far[1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.6175 mL	8.0873 mL	16.1747 mL
5 mM	0.3235 mL	1.6175 mL	3.2349 mL
10 mM	0.1617 mL	0.8087 mL	1.6175 mL
50 mM	0.0323 mL	0.1617 mL	0.3235 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

Victor Van Puyenbroeck, et al. Preprotein signature for full susceptibility to the co-translational translocation inhibitor cyclotriazadisulfonamide. *Traffic*. 2020 Feb;21(2):250-264.

Kurt Vermeire, et al. CADA, a potential anti-HIV microbicide that specifically targets the cellular CD4 receptor. *Curr HIV Res*. 2008 May;6(3):246-56.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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