

VZMC013

Chemical Properties

CAS No. :

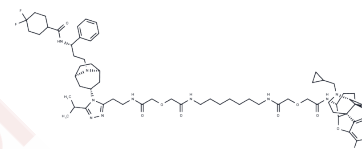
Formula: C65H92F2N10O10

Molecular Weight: 1211.48

Keep away from direct sunlight

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	VZMC013 is a potent chemical probe targeting the MOR-CCR5 heterodimer, effectively inhibiting HIV-1 entry exacerbated by opioid compounds. It exhibits nanomolar binding affinity to both MOR and CCR5, inhibits CCL5-activated calcium mobilization, and significantly enhances anti-HIV-1BaL activity compared to previously reported bivalent ligands. In TZM-bl cells co-expressing CCR5 and MOR, VZMC013 demonstrates greater inhibition of viral infection than in cells expressing only CCR5. Additionally, VZMC013 blocks HIV-1 entry into peripheral blood mononuclear cells (PBMC) in a concentration-dependent manner and more effectively inhibits opioid-accelerated HIV-1 entry in phytohemagglutinin-activated PBMC than in opioid-free environments.
Targets(IC50)	CCR

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.8254 mL	4.1272 mL	8.2544 mL
5 mM	0.1651 mL	0.8254 mL	1.6509 mL
10 mM	0.0825 mL	0.4127 mL	0.8254 mL
50 mM	0.0165 mL	0.0825 mL	0.1651 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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