

TC 14012

Chemical Properties

CAS No.:	368874-34-4
Formula:	C90H140N34O19S2
Molecular Weight:	2066.43
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

Biological Description

Description	CXCR4 antagonist and ACKR3 (CXCR7) agonist (EC50 = 350 nM for CXCR7).
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Solubility Information

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

	1mg	5mg	10mg
1 mM	0.484 mL	2.42 mL	4.839 mL
5 mM	0.097 mL	0.484 mL	0.968 mL
10 mM	0.048 mL	0.242 mL	0.484 mL
50 mM	0.01 mL	0.048 mL	0.097 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. Tamamura et al (2003) Synthesis of potent CXCR4 inhibitors possessing low cytotoxicity and improved biostability based on T140 derivatives. Org.Biomol.Chem. 1 3656 PMID:
2. Burger et al (2005) Small peptide inhibitors of the CXCR4 chemokine receptor (CS184) antagonize the activation, migration, and antiapoptotic responses of CXCL12 in chronic lymphocytic leukemia B cells. Blood 106 1824 PMID:
3. Gravel et al (2010) The peptidomimetic CXCR4 antagonist TC14012 recruits beta arrestin to CXCR7: roles of receptor domains. J.Biol.Chem. 285 37939 PMID:

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