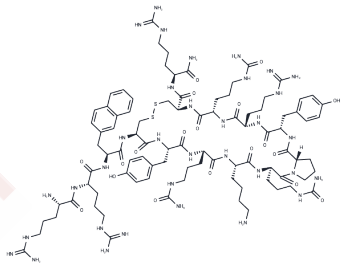
Data Sheet (Cat.No.TP2112)

TargetMol

TC14012

Chemical Properties



CAS No. :	368874-34-4
Formula:	C90H140N34O19S2
Molecular Weight:	2066.43
Appearance:	no data available
Storage:	keep away from moisture Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Biological Description

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

Solubility Information

Solubility	H2O: 1 mg/mL (0.48 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.4839 mL	2.4196 mL	4.8393 mL
5 mM	0.0968 mL	0.4839 mL	0.9679 mL
10 mM	0.0484 mL	0.242 mL	0.4839 mL
50 mM	0.0097 mL	0.0484 mL	0.0968 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.

Reference

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:

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:

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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