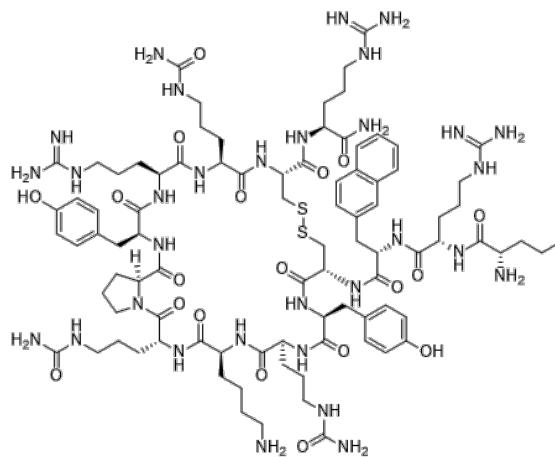


Product Name : TC14012
Cat. No. : PC-22932
CAS No. : 368874-34-4
Molecular Formula : C₉₀H₁₄₀N₃₄O₁₉S₂
Molecular Weight : 2066.43
Target : Chemokine Receptor (CCR and CXCR)
Solubility : 10 mM in DMSO



Biological Activity

TC14012 is a selective and peptidomimetic CXCR4 antagonist with IC₅₀ of 19.3 nM, also is a specific CXCR7 (ACKR3) agonist with EC₅₀ of 350 nM for recruiting β-arrestin 2 to CXCR7.

TC14012 antagonizes the activation, migration, and antiapoptotic responses of CXCL12 in chronic lymphocytic leukemia B cells.

TC14012 significantly recruited β-arrestin to CXCR7 in CXCR7-expressing cells and activated extracellular signal-regulated kinase (ERK) in neonatal rat cardiomyocytes.

References

Burger M, et al. Blood. 2005 Sep 1;106(5):1824-30.

Gravel S, et al. J Biol Chem. 2010 Dec 3;285(49):37939-43.

Ishizuka M, et al. Sci Rep. 2021 Feb 9;11(1):3426.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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