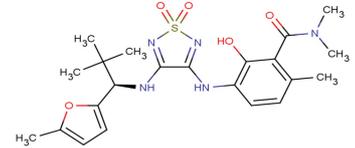


Data Sheet (Cat.No.T10716)

CCR7 Ligand 1

Chemical Properties

CAS No.:	681514-83-0
Formula:	C22H29N5O5S
Molecular Weight:	475.56
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



Biological Description

Description	CCR7 Ligand 1 (CCR7-Cmp2105) is an allosteric Ligand and antagonist for human CC chemokine receptor 7 (CCR7) with a Kd of 3 nM. CCR7 Ligand 1, thiadiazole-dioxide ligand, suppresses arrestin binding in response to activation by CCL19 with an IC50 of 7.3 μM.
Targets(IC50)	Human CCR7: 3 nM (kd)
In vitro	CCR7 Ligand 1 (CCR7-Cmp2105) binds to a pocket at the intracellular part of CCR7 between the ends of TM1, TM2, TM3, and TM6 and the loop between TM7 and H8[1]. CCR7 Ligand 1 allosterically inhibits binding of the native chemokine CCL19 ligand in scintillation proximity assays (bottom) with an IC50 of 35 nM[1]. CCR7 Ligand 1 (20, 40, 60, 80, 100 μM) has dose-dependent thermo-stabilizing effect on CCR7[1].

Solubility Information

Solubility	DMSO: 12.5 mg/mL (26.28 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.103 mL	10.514 mL	21.028 mL
5 mM	0.421 mL	2.103 mL	4.206 mL
10 mM	0.21 mL	1.051 mL	2.103 mL
50 mM	0.042 mL	0.21 mL	0.421 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. Jaeger K, et al. Structural Basis for Allosteric Ligand Recognition in the Human CC Chemokine Receptor 7. Cell. 2019 Aug 22;178(5):1222-1230.e10.

Inhibitors · Natural Compounds · Compound Libraries

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