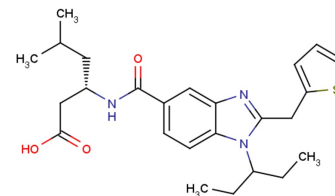


CMF019

Chemical Properties

CAS No.: 1586787-08-7
Formula: C₂₅H₃₃N₃O₃S
Molecular Weight: 455.61
Appearance: N/A
Storage: 0-4°C for short term (days to weeks), or -20°C for long term (months).

**Biological Description**

Description	CMF019 is a potent agonist of the Apelin receptor (APJ) with G protein bias. CMF019 binds to APJ (pK _i : 8.58, 8.49, and 8.71 for the human, rat, and mouse).
Targets(IC ₅₀)	human Apelin receptor: pki:8.58 rat Apelin receptor: 8.49 (pki) mouse Apelin receptor: 8.71(pki)

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.195 mL	10.974 mL	21.949 mL
5 mM	0.439 mL	2.195 mL	4.39 mL
10 mM	0.219 mL	1.097 mL	2.195 mL
50 mM	0.044 mL	0.219 mL	0.439 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. Trifonov L, et al. An Expedient Synthesis of CMF-019: (S)-5-Methyl-3-((pentan-3-yl)-2- (thiophen-2-ylmethyl)-1H-benzo[d]imidazole-5-carboxamido)hexanoic Acid, a Potent Apelin Receptor (APJ) Agonist. Med Chem. 2018;14(7):688-694.
2. Read C, et al. Cardiac action of the first G protein biased small molecule apelin agonist. Biochem Pharmacol. 2016 Sep 15;116:63-72.

Inhibitors · Natural Compounds · Compound Libraries

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