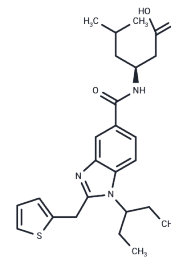


CMF019

## Chemical Properties

CAS No. :	1586787-08-7
Formula:	C <sub>25</sub> H <sub>33</sub> N <sub>3</sub> O <sub>3</sub> S
Molecular Weight:	455.61
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



## Biological Description

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

## Solubility Information

Solubility	DMSO: 255 mg/mL (559.69 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 5 mg/mL (10.97 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.1949 mL	10.9743 mL	21.9486 mL
5 mM	0.439 mL	2.1949 mL	4.3897 mL
10 mM	0.2195 mL	1.0974 mL	2.1949 mL
50 mM	0.0439 mL	0.2195 mL	0.439 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.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Trifonov L, et al. An Expedient Synthesis of CMF-019: (S)-5-Methyl-3-{1-(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.

Read C, et al. Cardiac action of the first G protein biased small molecule apelin agonist. *Biochem Pharmacol.* 2016 Sep 15;116:63-72.

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