

Product Data Sheet

Product Name: CMF019
Cat. No.: GC62326

Chemical Properties

Cas. No. 1586787-08-7

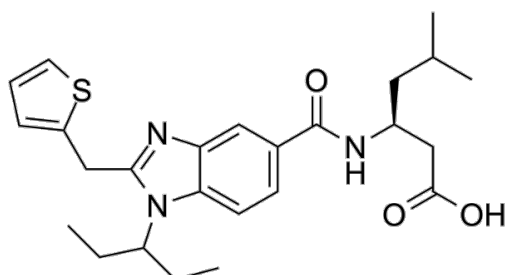
Formula $C_{25}H_{33}N_3O_3S$ M.Wt 455.61

Solubility DMSO : 50 mg/mL (109.74 mM; Need ultrasonic) Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure



Background

CMF019 is a potent and small molecule agonist at Apelin receptor (APJ) with G protein bias.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

Product Data Sheet

CMF019 binds to APJ with pKi values of 8.58, 8.49 and 8.71 for human, rat, and mouse, respectively. CMF019 mimics the beneficial cardiovascular actions of apelin in rodents[1]. Apelin receptor (APJ) is a G protein-coupled receptor (GPCR) activated by the endogenous peptide apelin[2].

[1]. 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.

[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.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA