

Product Data Sheet

Product Name: FFA3 agonist 1

Cat. No.: GC70773

Chemical Properties

Cas. No. 886358-51-6

Formula $C_{22}H_{22}N_2O_3$ M.Wt 362.42

Solubility DMSO : 25 mg/mL (68.98 mM);
ultrasonic and warming and heat to
60°C; Hygroscopic DMSO has a
significant impact on the solubility of
product, please use newly opened
DMSO)

Storage -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.

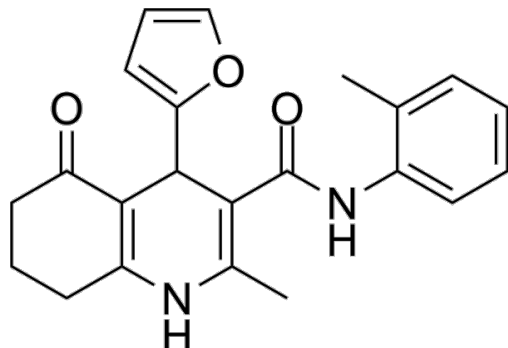
Caution: Product has not been fully validated for medical applications. For research use only.

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

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

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Structure



Background

FFA3 agonist 1 is an agonist of free fatty acid receptor 3 (FFA3). FFA3 agonist 1 regulates the health effect of intestinal microbiota by activating FFA3.

FFA3 agonist 1 (0.01-100 μ M) increases the incorporation of [^{35} S]GTP γ S and the generation of pERK1/2, reduces the production of cAMP in Flp-In T-REx 293 cells that induced the expression of enhanced yellow fluorescent protein (eYFP) human free fatty acid receptor 3 (hFFA3)^[2].

FFA3 agonist 1 (0.1-100 μ M) increases the incorporation of [^{35} S]GTP γ S in Flp-In T-REx 293 cells induced to express hFFA3, mouse FFA3 (mFFA3) and rat FFA3 (rFFA3)^[2].

References:

- [1]. Ulven ER, et al. Structure-Activity Relationship Studies of Tetrahydroquinolone Free Fatty Acid Receptor 3 Modulators. J Med Chem. 2020 Apr 9;63(7):3577-3595.
- [2]. Hudson BD, Christiansen E, Murdoch H, Jenkins L, Hansen AH, Madsen O, Ulven T, Milligan G. Complex pharmacology of novel allosteric free fatty acid 3 receptor ligands. Mol Pharmacol. 2014 Aug;86(2):200-10.

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