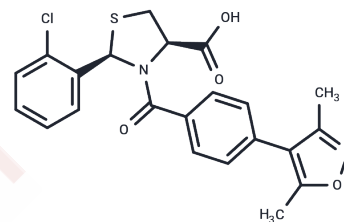


TUG-1375

Chemical Properties

CAS No. : 2247372-59-2
 Formula: C₂₂H₁₉ClN₂O₄S
 Molecular Weight: 442.92
 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 | TUG-1375 is an Agonist of Thiazolidine Free Fatty Acid Receptor 2 |
| Targets(IC50) | GPCR |
| In vitro | TUG-1375, a compound with significantly increased potency (7-fold in a cAMP assay) and reduced lipophilicity (50-fold reduced clogP) relative to the pyrrolidine lead structure. TUG-1375 induce human neutrophil mobilization and to inhibit lipolysis in murine adipocytes. |

Solubility Information

| | |
|---------------------|---|
| Solubility | DMSO: 45 mg/mL (101.6 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: 2 mg/mL (4.52 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 | 2.2577 mL | 11.2887 mL | 22.5774 mL |
| 5 mM | 0.4515 mL | 2.2577 mL | 4.5155 mL |
| 10 mM | 0.2258 mL | 1.1289 mL | 2.2577 mL |
| 50 mM | 0.0452 mL | 0.2258 mL | 0.4515 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

Hansen, Anders Højgaard, Sergeev E , Bolognini D , et al. Discovery of a Potent Thiazolidine Free Fatty Acid Receptor 2 Agonist with Favorable Pharmacokinetic Properties[J]. Journal of Medicinal Chemistry, 2018.

Gao H, Tian K, Feng X, et al. Free fatty acid receptor 2 promotes cardiomyocyte hypertrophy by activating STAT3 and GATA4. Food Science and Human Wellness. 2022, 11(2): 405-417.

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