

Product Data Sheet

Product Name: LY237
Cat. No.: GC79210

Chemical Properties

Cas. No. 1892576-07-6

Formula $C_{14}H_{23}NO_2$ M.Wt 237.34

Solubility DMSO: 25 mg/mL (105.33 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

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

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LY237 is a potent GPR84 full agonist, with EC 50 values of 0.189 nM and 0.07 nM in cAMP inhibition assay and calcium flux assay, respectively. LY237 binds to the amphipathic orthosteric pocket of GPR84, stabilizes the active conformation of the receptor, and promotes its coupling with G α i protein. LY237 can be used in research related to ulcerative colitis, fibrotic diseases, non-alcoholic steatohepatitis, and acute respiratory distress syndrome [1] [2].

In Vitro, LY237 interacts with specific residues in the extracellular loop 2 and transmembrane domain of the receptor, thereby driving activation signal transduction[2].

References:

- [1]. Ieremias L, et al. Minimal Structural Variation of GPR84 Full Agonist Causes Functional Switch to Inverse Agonism. Journal of medicinal chemistry. 2025 Apr 24;68(8):7973-8009.
- [2]. Liu H, et al. Structural insights into ligand recognition and activation of the medium-chain fatty acid-sensing receptor GPR84. Nature communications. 2023 Jun 06;14(1):3271.

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