

Product Data Sheet

Product Name: ZLY032
Cat. No.: GC48272

Chemical Properties

Cas. No. 2314465-67-1

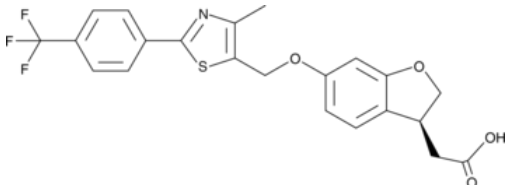
SMILES CC(N=C(C1=CC=C(C(F)(F)F)C=C1)S2)=C2COC3=CC=C([C@H](CC(O)=O)CO4)C4=C3

Formula C₂₂H₁₈F₃NO₄S M.Wt 449.4

Solubility DMF: 30 mg/ml, DMSO: 30 mg/ml, DMSO:PBS (pH 7.2) (1:5): 0.16 mg/ml 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

ZLY032 is a dual agonist of free fatty acid receptor 1 (FFAR1/GPR40; EC₅₀ = 68 nM in a FLIPR assay) and peroxisome proliferator-activated receptor δ (PPAR δ ; EC₅₀ = 102 nM in a reporter assay).¹ It is selective for FFAR1 and PPAR δ over PPAR α and PPAR γ (EC₅₀s = >10 μ M for both). ZLY032 (40 mg/kg, twice per day) reduces blood glucose levels in an oral glucose tolerance test and decreases plasma total cholesterol and triglyceride levels in the *ob/ob* mouse model of metabolic disease.² It reduces hepatic steatosis and plasma alanine transaminase (ALT) and aspartate aminotransferase (AST) levels in a mouse model of non-alcoholic steatohepatitis (NASH) induced by a methionine and choline-deficient diet at the same dose.

1. Li, Z., Chen, Y., Zhou, Z., et al. Discovery of first-in-class thiazole-based dual FFA1/PPAR δ agonists

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

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as potential anti-diabetic agents *Eur. J. Med. Chem.* 164352-365(2019) 2. Li, Z., Zhou, Z., Hu, L., et al. ZLY032, the first-in-class dual FFA1/PPAR δ agonist, improves glucolipid metabolism and alleviates hepatic fibrosis *Pharmacol Res.* 159105035(2020)

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