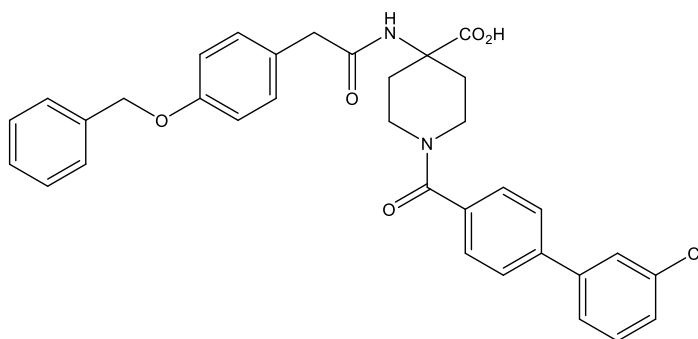


Catalog # 10-3988

YL-365

4-(2-(4-(Benzyloxy)phenylacetamido)-1-(3'-chloro-[1,1'-biphenyl]-4-carbonyl)piperidine-4-carboxylic acid;
1-[4-(3-Chlorophenyl)benzoyl]-4-[[2-(4-phenylmethoxyphenyl)acetyl]amino]piperidine-4-carboxylic acid

Lot # FBA9062



YL-365 is a potent ($IC_{50} = 17$ nM) and selective antagonist of GPR34, a GPCR for lysophosphatidylserine.¹ GPR34 is highly expressed in various immune cells and has been implicated in several types of cancer.² YL-365 showed no activity against various other GPCRs as well as a panel of 378 kinases. It alleviated hyperalgesia in a mouse model of neuropathic pain *via* downregulation of iNOS in M1 microglia without any toxicity.

- 1) Xia *et al.* (2023), *Cryo-EM structures of human GPR34 enable the identification of selective antagonists*; Proc. Natl. Acad. Sci. USA, **120** e2308435120
- 2) Schoeneberg *et al.* (2018), *The G protein-coupled receptor GPR34 – the past 20 years of a grownup*; Pharmacol. Ther. **189** 71

PHYSICAL DATA

Molecular Weight: 583.08
Molecular Formula: C₃₄H₃₁ClN₂O₅
Purity: >98% by HPLC
NMR: (Conforms)
Solubility: DMSO (>25 mg/ml)
Physical Description: White solid
Storage and Stability: Store as supplied at -20°C for up to 1 year from the date of purchase. Solutions in DMSO may be stored at -20°C for up to 3 months.

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