TUG-2208

Cat. No.: HY-163350

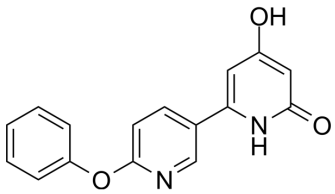
Molecular Formula: $C_{16}H_{12}N_2O_3$

Molecular Weight: 280.28

Target: GPR84

Pathway: GPCR/G Protein

Storage: Please store the product under the recommended conditions in the Certificate of Analysis.



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (356.79 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	3.5679 mL	17.8393 mL	35.6786 mL
	5 mM	0.7136 mL	3.5679 mL	7.1357 mL
	10 mM	0.3568 mL	1.7839 mL	3.5679 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (8.92 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

TUG-2208 (compound 42a) is a GPR84 agonist (pEC_{50}=8.98) with low lipophilicity and good solubility, in vitro permeability and microsomal stability[1].

In Vitro

TUG-2208 (0.1; 1 mM 4; 96 h) shows excellent stability in mouse liver microsomes[1].
TUG-2208 (10 μM) exhibits over 1000-fold selectivity for GPR84 compared to other free fatty acid receptors (FFA1, FFA2, FFA3, FFA4)[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Ieremias L, et al., Structure-Activity Relationship Studies and Optimization of 4-Hydroxypyridones as GPR84 Agonists. J Med Chem. 2024 Feb 21.

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

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA