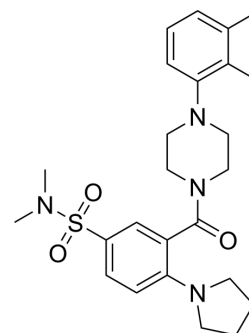


ML-184

Cat. No.:	HY-116461		
CAS No.:	794572-10-4		
Molecular Formula:	C ₂₅ H ₃₄ N ₄ O ₃ S		
Molecular Weight:	470.63		
Target:	GPR55		
Pathway:	GPCR/G Protein; Neuronal Signaling		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 12.5 mg/mL (26.56 mM); ultrasonic and warming and heat to 60°C)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	2.1248 mL	10.6241 mL	21.2481 mL
5 mM	0.4250 mL	2.1248 mL	4.2496 mL
10 mM	0.2125 mL	1.0624 mL	2.1248 mL

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

BIOLOGICAL ACTIVITY

Description

ML-184 (CID2440433) is a selective GPR55 agonist with an EC₅₀ of 250 nM and exhibits >100-fold selectivity for GPR55 over GPR35, CB1 and CB2. ML-184 induces phosphorylation of ERK1/2 and translocation of PKCβII to the plasma membrane by activating GPR55^[1]. ML-184(CID2440433) increases proliferation of neural stem cells and promotes neuronal differentiation in vitro^[2].

REFERENCES

- [1]. Kotsikorou E, et al. Identification of the GPR55 agonist binding site using a novel set of high-potency GPR55 selective ligands. *Biochemistry*. 2011 Jun 28;50(25):5633-47.
- [2]. Hill JD, et al. Activation of GPR55 increases neural stem cell proliferation and promotes early adult hippocampal neurogenesis. *Br J Pharmacol*. 2018 Aug;175(16):3407-3421.

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