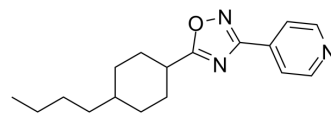


PSN 375963

Cat. No.:	HY-108258		
CAS No.:	388575-52-8		
Molecular Formula:	C ₁₇ H ₂₃ N ₃ O		
Molecular Weight:	285.38		
Target:	GPR119		
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 : 50 mg/mL (175.20 mM; Need ultrasonic)

Concentration	Solvent	Mass	1 mg	5 mg	10 mg
			Concentration	1 mg	5 mg
1 mM			3.5041 mL	17.5205 mL	35.0410 mL
5 mM			0.7008 mL	3.5041 mL	7.0082 mL
10 mM			0.3504 mL	1.7520 mL	3.5041 mL

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

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: 2.5 mg/mL (8.76 mM); Clear solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.5 mg/mL (8.76 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.5 mg/mL (8.76 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

PSN 375963 is a potent GPR119 agonist, with EC₅₀s of 8.4 and 7.9 μM for human and mouse GPR119, respectively. PSN 375963 shows similar potency to the endogenous agonist oleoylethanolamide (OEA)^{[1][2]}.

In Vitro

The endogenous ligand OEA signals through GPR119 in a manner similar to glucagon-like peptide-1 (GLP-1) and its receptor with respect to insulin secretion, intracellular calcium and cAMP^[2].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Overton HA, et al. Deorphanization of a G protein-coupled receptor for oleoylethanolamide and its use in the discovery of small-molecule hypophagic agents. *Cell Metab.* 2006;3(3):167-175.
- [2]. Ning Y, et al. Endogenous and synthetic agonists of GPR119 differ in signalling pathways and their effects on insulin secretion in MIN6c4 insulinoma cells. *Br J Pharmacol.* 2008;155(7):1056-1065.
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Caution: Product has not been fully validated for medical applications. For research use only.

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