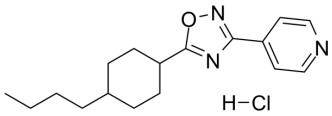
PSN 375963 hydrochloride

Cat. No.:	HY-108258A
CAS No.:	1781834-82-9
Molecular Formula:	$C_{17}H_{24}ClN_3O$
Molecular Weight:	321.84
Target:	GPR119
Pathway:	GPCR/G Protein; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	PSN 375963 hydrochloride is a potent GPR119 agonist, with EC_{50}s of 8.4 and 7.9 μM for human and mouse GPR119, respectively. PSN 375963 hydrochloride 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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