

Certificate of Analysis

Product Name: PSN 375963 hydrochloride

Catalog No.: 3353

Batch No.: 1

CAS Number: 388575-52-8

IUPAC Name: 4-[5-(4-Butylcyclohexyl)-1,2,4-oxadiazol-3-yl]-pyridine hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₇H₂₃N₃O.HCl

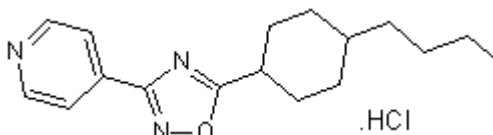
Batch Molecular Weight: 321.84

Physical Appearance: White solid

Solubility: DMSO to 100 mM
ethanol to 100 mM

Storage: Desiccate at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.79 (Dichloromethane:Methanol [9:1])

HPLC: Shows >98.9% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	63.44	7.52	13.06
Found	63.41	7.11	13.09

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Description:

GPR119 receptor agonist (EC₅₀ values are 8.4 and 7.9 μM at human and mouse receptors respectively). Displays similar potency to the endogenous ligand oleylethanolamide (OEA) (Cat. No. 1484).

Physical and Chemical Properties:

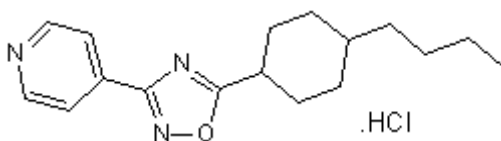
Batch Molecular Formula: C₁₇H₂₃N₃O.HCl

Batch Molecular Weight: 321.84

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Desiccate at RT

Solubility & Usage Info:

DMSO to 100 mM
ethanol to 100 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Overton *et al* (2006) Deorphanization of a G protein-coupled receptor for oleylethanolamide and its use in the discovery of small-molecule hypophagic agents. *Cell Metab.* **3** 167. PMID: 16517404.

Ning *et al* (2008) Endogenous and synthetic agonists of GPR119 differ in signalling pathways and their effects on insulin secretion in MIN6c4 insulinoma cells. *Br.J.Pharmacol.* **155** 1056. PMID: 18724386.

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