

Product Name: DL 175

Catalog No.: 7082

Batch No.: 1

IUPAC Name: 3-(2-((4-Chloronaphthalen-1-yl)oxy)ethyl)pyridine 1-oxide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₇H₁₄ClNO₂·¼H₂O

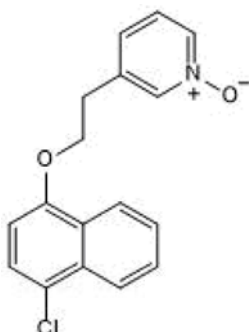
Batch Molecular Weight: 304.25

Physical Appearance: Off-white solid

Solubility: DMSO to 100 mM
ethanol to 100 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 100.0% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	67.11	4.8	4.6
Found	66.78	4.84	4.74

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

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Batch No.: 1

IUPAC Name: 3-(2-((4-Chloronaphthalen-1-yl)oxy)ethyl)pyridine 1-oxide

Description:

Potent and selective GPR84 biased agonist ($EC_{50} = 33$ nM). Exhibits no significant activity in a panel of 168 other GPCRs. Exhibits bias for G protein signaling pathways. Induces morphological changes in primary murine bone marrow-derived macrophages (BMDMs) in a cellular impedance assay, and promotes phagocytosis by M1 polarized U937 cells. Induces migration of primary human monocytes, but has no effect on macrophage chemotaxis.

Physical and Chemical Properties:

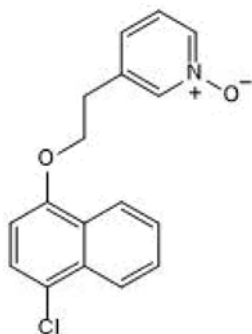
Batch Molecular Formula: $C_{17}H_{14}ClNO_2 \cdot \frac{1}{4}H_2O$

Batch Molecular Weight: 304.25

Physical Appearance: Off-white solid

Minimum Purity: $\geq 98\%$

Batch Molecular Structure:



References:

Lucy *et al* (2019) A biased agonist at immunometabolic receptor GPR84 causes distinct functional effects in macrophages. ACS Chem.Biol **14** 2055. PMID: 31465201.

Storage: Store at $-20^{\circ}C$

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 $45-60^{\circ}C$ 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 $-20^{\circ}C$ or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

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