

Certificate of Analysis

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Product Name: H2L 5765834

Catalog No.: 4870

Batch No.: 1

CAS Number: 420841-84-5

IUPAC Name: 2,3-Dihydro-2-[3-(4-nitrophenoxy)phenyl]-1,3-dioxo-1*H*-isoindole-5-carboxylic acid

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₁H₁₂N₂O₇·¼H₂O

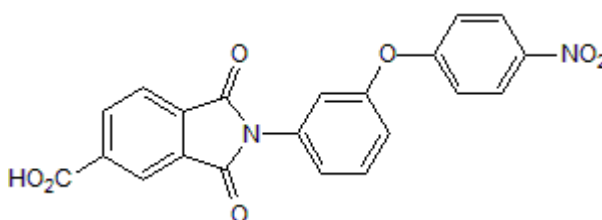
Batch Molecular Weight: 408.83

Physical Appearance: Pale yellow solid

Solubility: DMSO to 100 mM

Storage: Store at +4°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.3% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	61.7	3.08	6.85
Found	61.69	3.03	6.96

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

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Description:

Antagonist of the lysophosphatidic acid receptors LPA₁, LPA₅ and LPA₃ (IC₅₀ values are 94, 463 and 752 nM respectively). Exhibits no effect at LPA₂ or LPA₄ receptors.

Physical and Chemical Properties:

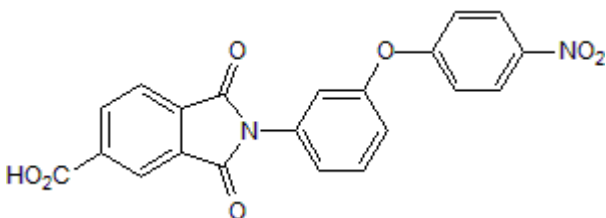
Batch Molecular Formula: C₂₁H₁₂N₂O₇·¼H₂O

Batch Molecular Weight: 408.83

Physical Appearance: Pale yellow solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

DMSO 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:

Williams *et al* (2009) Unique ligand selectivity of the GPR92/LPA₅ lysophosphatidate receptor indicates role in human platelet activation. *J.Biol.Chem.* **284** 17304. PMID: 19366702.

Fells *et al* (2010) 2D binary QSAR modeling of LPA₃ receptor antagonism. *J.Mol.Graph Model.* **28** 828. PMID: 20356772.

Tigyi (2010) Aiming drug discovery at lysophosphatidic acid targets. *Br.J.Pharmacol.* **161** 241. PMID: 20735414.

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