

## Certificate of Analysis

**Product Name:** GRI 977143

**Catalog No.:** 4779

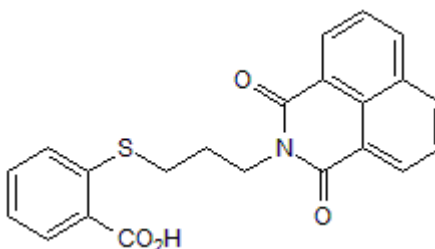
**Batch No.:** 1

CAS Number: 325850-81-5

IUPAC Name: 2-[[3-(1,3-dioxo-1*H*-benz[de]isoquinolin-2(3*H*)-yl)propyl]thio]benzoic acid

### 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>22</sub>H<sub>17</sub>NO<sub>4</sub>S  
**Batch Molecular Weight:** 391.44  
**Physical Appearance:** White solid  
**Solubility:** DMSO to 100 mM  
**Storage:** Store at +4°C  
**Batch Molecular Structure:**



### 2. ANALYTICAL DATA

**HPLC:** Shows 99.2% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	67.51	4.38	3.58
Found	67.15	4.52	3.6

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**Description:**

Selective lysophosphatidic acid 2 (LPA<sub>2</sub>) receptor non-lipid agonist (EC<sub>50</sub> = 3.3 μM). Does not activate other LPA GPCRs at concentrations up to 10 μM. Antiapoptotic; inhibits activation of caspases 3, 7, 8 and 9, Bax translocation and PARP-1 cleavage. Activates ERK1/2 survival pathway.

**Physical and Chemical Properties:**

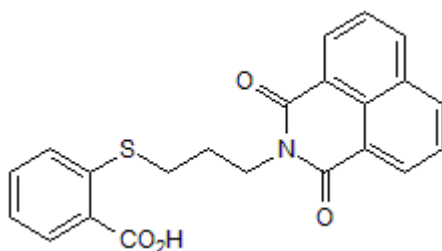
Batch Molecular Formula: C<sub>22</sub>H<sub>17</sub>NO<sub>4</sub>S

Batch Molecular Weight: 391.44

Physical Appearance: White solid

**Minimum Purity:** >98%

**Batch Molecular Structure:**



**References:**

**Kiss et al** (2012) Virtual screening for LPA<sub>2</sub>-specific agonists identifies a nonlipid compound with antiapoptotic actions. *Mol.Pharmacol.* **82** 1162. PMID: 22968304.

**Kiss et al** (2013) Mitigation of radiation injury by selective stimulation of the LPA(2) receptor. *Biochim.Biophys.Acta* **1831** 117. PMID: 23127512.

**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.

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