

**Product Name:** A 971432

**Catalog No.:** 5766

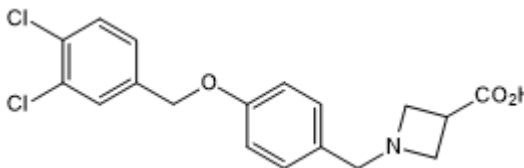
**Batch No.:** 1

CAS Number: 1240308-45-5

IUPAC Name: 1-[[4-[(3,4-Dichlorophenyl)methoxy]phenyl]methyl]-3-azetidincarboxylic acid

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>18</sub>H<sub>17</sub>Cl<sub>2</sub>NO<sub>3</sub>  
**Batch Molecular Weight:** 366.24  
**Physical Appearance:** White solid  
**Solubility:** 1eq. NaOH to 100 mM  
 1eq. HCl to 100 mM  
**Storage:** Store at RT  
**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**TLC:** R<sub>f</sub> = 0.23 (Dichloromethane:Methanol [9:1])  
**HPLC:** Shows 99.7% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	59.03	4.68	3.82
Found	58.89	4.75	3.81

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

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**Description:**

Potent and selective S1P<sub>5</sub> agonist (EC<sub>50</sub> values are 4.1 and 5.7 nM in cAMP and GTPγS assays, respectively). Exhibits 60-fold selectivity over S1P<sub>1</sub>, and >1,600-fold selectivity over S1P<sub>2-4</sub>, and a panel of 129 kinases and 79 receptors. Improves blood-brain barrier integrity in vitro and reverses age-related cognitive decline in vivo. Orally available.

**Physical and Chemical Properties:**

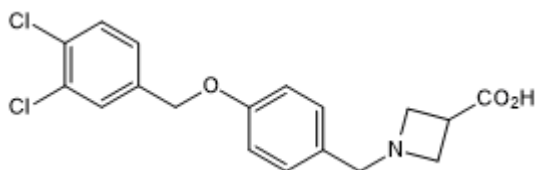
Batch Molecular Formula: C<sub>18</sub>H<sub>17</sub>Cl<sub>2</sub>NO<sub>3</sub>

Batch Molecular Weight: 366.24

Physical Appearance: White solid

**Minimum Purity:** >99%

**Batch Molecular Structure:**



**References:**

**Hobson et al** (2015) Discovery of A-971432, an orally bioavailable selective sphingosine-1-phosphate receptor 5 (S1P<sub>5</sub>) agonist for the potential treatment of neurodegenerative disorders. *J.Med.Chem.* **58** 9154. PMID: 26509640.

**Storage:** Store at RT

**Solubility & Usage Info:**

1eq. NaOH to 100 mM

1eq. HCl 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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