

**Product Name:** LP 922056

**Catalog No.:** 6691

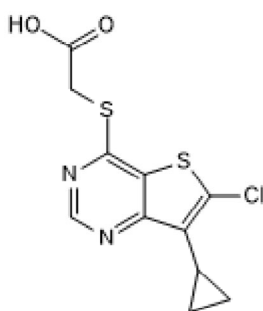
**Batch No.:** 5

CAS Number: 1365060-22-5

IUPAC Name: 2-[(6-Chloro-7-cyclopropylthieno[3,2-*d*]pyrimidin-4-yl)thio]acetic acid

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>11</sub>H<sub>9</sub>ClN<sub>2</sub>O<sub>2</sub>S<sub>2</sub>  
**Batch Molecular Weight:** 300.78  
**Physical Appearance:** White solid  
**Solubility:** DMSO to 100 mM  
**Storage:** Store at -20°C  
**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**HPLC:** Shows 99.5% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	43.92	3.02	9.31
Found	43.77	2.91	9.19

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

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**Description:**

LP 922056 is a notum pectinacetylerase inhibitor. LP 922056 activates wnt signaling in vitro (EC<sub>50</sub> values are 21 nM in human and 55 nM in mouse cell-based assay). It increases cortical bone thickness in mouse model of bone growth. LP 922056 also inhibits growth of Apc-mutant cell lines and proliferation of intestinal adenomas in vivo.

**Physical and Chemical Properties:**

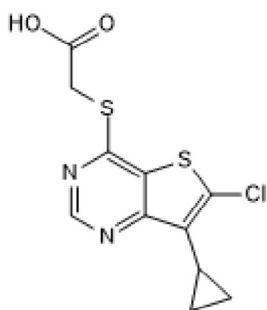
Batch Molecular Formula: C<sub>11</sub>H<sub>9</sub>ClN<sub>2</sub>O<sub>2</sub>S<sub>2</sub>

Batch Molecular Weight: 300.78

Physical Appearance: White solid

**Minimum Purity:** ≥98%

**Batch Molecular Structure:**



**Storage:** Store at -20°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. \*Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

**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:**

**Flanagan *et al*** (2021) NOTUM from Apc-mutant cells biases clonal competition to initiate cancer. *Nature* **594** 430. PMID: 34079124.

**Brommage *et al*** (2019) NOTUM inhibition increases endocortical bone formation and bone strength. *Bone Res.* **7**. PMID: 30622831 .

**Tarver *et al*** (2016) Stimulation of cortical bone formation with thienopyrimidine based inhibitors of Notum Pectinacetylerase. *Bioorg.Med.Chem.Lett* **26** 1525. PMID: 26897593.

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