

Certificate of Analysis

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Product Name: LP 922056

Catalog No.: 6691

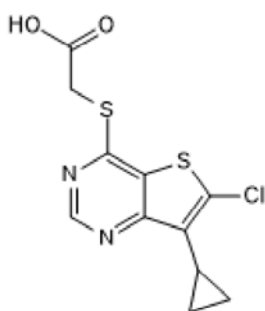
Batch No.: 3

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: C₁₁H₉ClN₂O₂S₂
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 99.7% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	43.93	3.02	9.31
Found	43.92	3	9.2

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 (EC₅₀ 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:

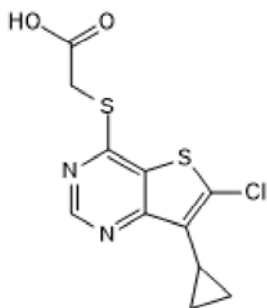
Batch Molecular Formula: C₁₁H₉ClN₂O₂S₂.

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. 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:

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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