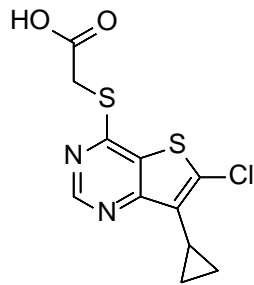


Product data sheet



MedKoo Cat#: 574058 Name: LP-922056 CAS: 1365060-22-5 Chemical Formula: C ₁₁ H ₉ ClN ₂ O ₂ S ₂ Exact Mass: 299.9794 Molecular Weight: 300.775	
Product supplied as:	Powder
Purity (by HPLC):	≥ 98%
Shipping conditions	Ambient temperature
Storage conditions:	Powder: -20°C 3 years; 4°C 2 years. In solvent: -80°C 3 months; -20°C 2 weeks.

1. Product description:

LP-922056 is a Notum pectinacylesterase inhibitor which activates wnt signalling. LP-922056 increases cortical bone thickness in a mouse model of bone growth.

2. CoA, QC data, SDS, and handling instruction

SDS and handling instruction, CoA with copies of QC data (NMR, HPLC and MS analytical spectra) can be downloaded from the product web page under “QC And Documents” section. Note: copies of analytical spectra may not be available if the product is being supplied by MedKoo partners. Whether the product was made by MedKoo or provided by its partners, the quality is 100% guaranteed.

3. Solubility data

Solvent	Max Conc. mg/mL	Max Conc. mM
DMSO	77.54	257.80

4. Stock solution preparation table:

Concentration / Solvent Volume / Mass	1 mg	5 mg	10 mg
1 mM	3.32 mL	16.62 mL	33.25 mL
5 mM	0.66 mL	3.32 mL	6.65 mL
10 mM	0.33 mL	1.66 mL	3.32 mL
50 mM	0.07 mL	0.33 mL	0.66 mL

5. Molarity Calculator, Reconstitution Calculator, Dilution Calculator

Please refer the product web page under section of “Calculator”

6. Recommended literature which reported protocols for in vitro and in vivo study

In vitro study

1. Bayle ED, Svensson F, Atkinson BN, Steadman D, Willis NJ, Woodward HL, Whiting P, Vincent JP, Fish PV. Carboxylesterase Notum Is a Druggable Target to Modulate Wnt Signaling. *J Med Chem.* 2021 Apr 22;64(8):4289-4311. doi: 10.1021/acs.jmedchem.0c01974. Epub 2021 Mar 30. PMID: 33783220; PMCID: PMC8172013.

In vivo study

TBD

7. Bioactivity

Biological target:

LP-922056 is an orally active, highly potent Notum Pectinacylesterase inhibitor with EC₅₀s of 21 nM, 55 nM in human and mouse cellular assay, respectively.

In vitro activity

Reliable screening technologies are available to identify inhibitors of Notum, and structural studies are accelerating the discovery of new inhibitors. A selection of these hits have been optimized to give fit-for-purpose small molecule inhibitors of Notum. Three noteworthy examples are LP-922056 (26), ABC99 (27), and ARUK3001185 (28), which are complementary chemical tools for exploring the role of Notum in Wnt signaling.

Product data sheet



Reference: J Med Chem. 2021 Apr 22;64(8):4289-4311. <https://pubmed.ncbi.nlm.nih.gov/33783220/>

In vivo activity

TBD

Note: The information listed here was extracted from literature. MedKoo has not independently retested and confirmed the accuracy of these methods. Customer should use it just for a reference only.