Lobetyolin

Catalog No.C14314 Batch:C1431403

Product Datasheet

Technical Data

Formula	$C_{20}H_{28}O_8$					
Molecular Weight	396.43	**CAS No.**	129277-38-9			
Solubility (25°C)*	In vitro	DMSO	79 mg/mL (199.27 mM)			
		Water	79 mg/mL (199.27 mM)			
		Ethanol	79 mg/mL (199.27 mM)			
	In vivo (Add solvents to the product individually and in order)	Oral Administration	Homogeneous suspension	CMC-NA	≥5mg/ml	Taking the 1 mL working solution as an example, add 5 mg of this product to 1 ml of CMC-Na solution, mix evenly to obtain a homogeneous suspension with a final concentration of 5 mg/ml.

* <1 mg/ml means slightly soluble or insoluble.
* Please note that Capsid Bio tests the solubility of all compounds in-house, and the actual solubility may differ slightly from published values. This is normal and is due to slight batch-to-batch variations.
* Room temperature shipping (Stability testing shows this product can be shipped at 2-8°C for storage purposes.)

Preparing Stock Solutions

Concentration \ Volume \ Mass	1 mg	5 mg	10 mg
1 mM	2.5225 mL	12.6126 mL	25.2251 mL
5 mM	0.5045 mL	2.5225 mL	5.0450 mL
10 mM	0.2523 mL	1.2613 mL	2.5225 mL
50 mM	0.0505 mL	0.2523 mL	0.5045 mL

Biological Activity

Description	Lobetyolin is one of the important active ingredients extracted from the root of Codonopsis pilosula, which has a good protective effect on gastric mucosal damage. This compound can downregulate glutamine metabolism, contribute to drug-induced apoptosis and tumor growth inhibition, and it significantly reduces the mRNA and protein expression of the amino acid transporter **alanine-serine-cysteine transporter 2 (ASCT2)**.

References

https://pubmed.ncbi.nlm.nih.gov/33161560/

RETURN POLICY

Capsid Bio's Unconditional Return Policy ensures a smooth online shopping experience for our customers. If you are in any way unsatisfied with your purchase, you may return any item(s) within 7 days of receiving it. In the event of product quality issues, either protocol related or product related problems, you may return any item(s) within 365 days from the original purchase date. Please follow the instructions below when returning products.

SHIPPING & STORAGE

Capsid Bio products are transported at room temperature. If you receive the product at room temperature, please rest assured, the Capsid Bio Quality Inspection Department has conducted experiments to verify that the normal temperature placement of one month will not affect the biological activity of powder products. After collecting, please store the product according to the requirements described in the datasheet. Most Capsid Bio products are stable under the recommended conditions.

NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

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