Product Datasheet

Technical Data

Formula	$C_9H_{18}O_5S$					
Molecular Weight	238.30	**CAS No.**	367-93-1			
Solubility (25°C)*	In vitro	DMSO	48 mg/mL (201.42 mM)			
		Water	48 mg/mL (201.42 mM)			
		Ethanol	48 mg/mL (201.42 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	4.1964 mL	20.9820 mL	41.9639 mL
5 mM	0.8393 mL	4.1964 mL	8.3928 mL
10 mM	0.4196 mL	2.0982 mL	4.1964 mL
50 mM	0.0839 mL	0.4196 mL	0.8393 mL

Biological Activity

Description	IPTG (Isopropyl β-D-thiogalactoside, Isopropyl thiogalactoside, Isopropyl β-D-1-thiogalactopyranoside, lad-y) is a galactose and a molecular mimic of allolactose that triggers transcription of the **lac operon**, stimulating protein expression.
Targets	lac operon [1]

References

https://pubmed.ncbi.nlm.nih.gov/9608745/

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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