Product Datasheet

Technical Data

Formula	$C_{18}H_{16}BrN_5S$					
Molecular Weight	414.32	**CAS No.**	298-93-1			
Solubility (25°C)*	In vitro	DMSO	21 mg/mL (50.68 mM)			
		Ethanol	7 mg/mL (16.89 mM)			
		Water	2 mg/mL (4.82 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	2.4136 mL	12.0680 mL	24.1359 mL
5 mM	0.4827 mL	2.4136 mL	4.8272 mL
10 mM	0.2414 mL	1.2068 mL	2.4136 mL
50 mM	0.0483 mL	0.2414 mL	0.4827 mL

Biological Activity

Description	Thiazolyl Blue (MTT, Tetrazolium bromide, Methylthiazolyldiphenyl-tetrazolium bromide, Methylthialazole Tetrazolium) is a cell-permeable and positively charged colorimetric agent that is widely used to detect reductive metabolism in cells and to measure cell proliferation, cytotoxicity, and apoptosis. This compound is reduced from yellow color to purple formazan in living cells.
In vitro	1.Preparation of MTT working solution Dissolve this compound by PBS to obtain 5 mg/mL of MTT. 2.Cell proliferation detection (96-well plates) 2.1Inoculated cells:Prepared single cell suspension to prepared with culture medium containing 10% FBS and inoculated into 96-well plate with 1000-10000 cells per well, volume of 100 uL per well. 2.2Incubated cells: 37℃. 5% CO2, Incubate for 24-72 h. 2.3Add 10 μL MTT in per well and incubate for 4 h, Discard the supernatant, For suspended cells, need centrifuge firstly. 2.4Add 100 μL DMSO, shock 10 min to dissolve the crystal completely 2.5Monitor the absorbance increase with an absorbance plate reader at OD = 562 nm.

References

https://pubmed.ncbi.nlm.nih.gov/16216776/

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.

EU Headquarters
Gajeva ulica 28, HR-10000 Zagreb, Croatia

US Headquarters
12222 Merit Dr STE 130 Dallas, Texas, 75251

UK Headquarters
121 ABILITY HOUSE, BROOKER ROAD, EN9 1JH, ESSEX

Orders: Sales@capsidbio.com
Enquiries: info@capsidbio.com
www.capsidbio.com