Nile Red

Catalog No.C12238 Batch:C1223803

Product Datasheet

Technical Data

Formula	$C_{20}H_{18}N_2O_2$					
Molecular Weight	318.37	**CAS No.**	7385-67-3			
Solubility (25°C)*	In vitro	DMSO	40 mg/mL (125.63 mM)			
		Water	Insoluble			
		Ethanol	Insoluble			
	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	3.1410 mL	15.7050 mL	31.4100 mL
5 mM	0.6282 mL	3.1410 mL	6.2820 mL
10 mM	0.3141 mL	1.5705 mL	3.1410 mL
50 mM	0.0628 mL	0.3141 mL	0.6282 mL

Biological Activity

Description	Nile Red (Nile Blue A oxazone, Phenoxazone 9) is an excellent vital fluorescent stain for the detection of **intracellular lipid droplets** in the presence of a hydrophobic environment. This compound is applied for staining intracellular lipids, hydrophobic domains of proteins and lysosomal phospholipid inclusions.
Targets	lipid droplet [1]
In vitro	1. Preparation of Phalloidin-TRITC working solution 1.1Preparation of the stock solution Dissolve this compound in Methanol to obtain 10 mM of stock solution. Note: It is recommended to store the stock solution at -20℃ or -80℃ away from light and avoid repetitive freeze-thaw cycles. 1.2 Preparation of this chemical working solution Dilute the stock solution in serum-free cell culture medium to obtain 1-10 μM of working solution. Note: Please adjust the concentration of this chemical working solution according to the actual situation. 2. Cell staining 2.1 Suspension cells (6-well plate) a.Centrifuge at 1000 g at 4℃ for 3-5 minutes and then discard the supernatant. Wash twice with PBS, 5 minutes each time. b.Add 1 mL of working solution, and then incubate at room temperature for 30-60 minutes. c.Centrifuge at 400 g at 4℃ for 3-4 minutes and then discard the supernatant. d.Wash twice with PBS, 5 minutes each time. e.Resuspend cells with serum-free cell culture medium or PBS. Observation by fluorescence microscopy or flow cytometry. 2.2 Adherent cells a.Culture adherent cells on sterile coverslips. b.Remove the coverslip from the medium and aspirate excess medium. c.Add 100 μL of working solution, gently shake it to completely cover the cells,and then incubate at room temperature for 30-60 minutes. d.Wash twice with medium, 5 minutes each time. Observation by fluorescence microscopy.

References

https://pubmed.ncbi.nlm.nih.gov/3972906/

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.

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