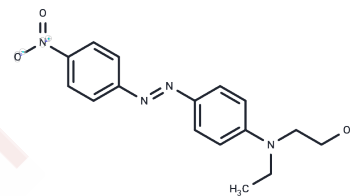


Disperse Red 1

Chemical Properties

CAS No. :	2872-52-8
Formula:	C ₁₆ H ₁₈ N ₄ O ₃
Molecular Weight:	314.34
Storage:	Keep away from direct sunlight Powder: -20°C for 3 years In solvent: -80°C for 1 year <i>Actual storage temperature shall be subject to the COA.</i>



Biological Description

Description	Disperse Red 1 (Celliton Scarlet B) is an azo dye that contributes to the toxicity and pollution of wastewater.
Targets(IC50)	Others

Solubility Information

Solubility	DMSO: 9.33 mg/mL (29.68 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Saline: 0.5 mg/mL (1.59 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.1813 mL	15.9063 mL	31.8127 mL
5 mM	0.6363 mL	3.1813 mL	6.3625 mL
10 mM	0.3181 mL	1.5906 mL	3.1813 mL
50 mM	0.0636 mL	0.3181 mL	0.6363 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Fernandes FH, Bustos-Obregon E, Salvadori DM. Disperse Red 1 (textile dye) induces cytotoxic and genotoxic effects in mouse germ cells. *Reprod Toxicol*. 2015 Jun;53:75-81. doi: 10.1016/j.reprotox.2015.04.002. Epub 2015 Apr 13. PubMed PMID: 25883024.

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