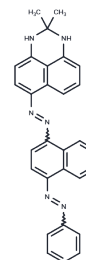


Sudan Black B

Chemical Properties

CAS No. :	4197-25-5
Formula:	C ₂₉ H ₂₄ N ₆
Molecular Weight:	456.54
Storage:	Keep away from direct sunlight Store at -20°C <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	Sudan Black B is a lipophilic diazo dye commonly used in histochemistry to stain neutral lipids, phospholipids, lipoproteins, and lipofuscin within the cytoplasm, facilitating studies of lipid and cellular metabolism.
Targets(IC50)	Others
In vitro	Sudan Black B is also applicable to frozen samples, making it suitable for combined use with SA-β-gal in detecting cellular senescence. Sudan Black B is an intensely lipophilic reagent with high affinity for the lipid components of lipofuscin. Under optical microscopy, Sudan Black B-lipofuscin positive reactions appear as blue-black intracellular granules in cells and frozen tissues, while exhibiting brown-black granules in formalin-fixed paraffin-embedded (FFPE) tissues [1].

Solubility Information

Solubility	H ₂ O: < 1 mg/mL (insoluble) DMSO: 1 mg/mL (2.19 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.1904 mL	10.9519 mL	21.9039 mL
5 mM	0.4381 mL	2.1904 mL	4.3808 mL
10 mM	0.219 mL	1.0952 mL	2.1904 mL
50 mM	0.0438 mL	0.219 mL	0.4381 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

Konstantinos Evangelou, et al. Sudan Black B, The Specific Histochemical Stain for Lipofuscin: A Novel Method to Detect Senescent Cells. *Methods Mol Biol.* 2017;1534:111-119.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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