

Solvent Blue 35

Chemical Properties

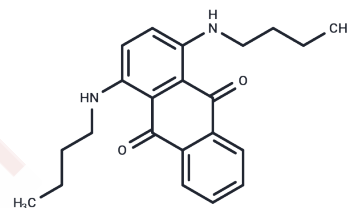
CAS No. : 17354-14-2

Formula: C₂₂H₂₆N₂O₂

Molecular Weight: 350.45

Storage: Keep away from direct sunlight
Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	Solvent Blue 35 (Sudan Blue II) is a dye utilized for coloring hydrocarbon-based and alcoholic solvents, as well as staining triglycerides in animal tissues.
Targets(IC50)	Others
Cell Research	<p>Instructions</p> <ol style="list-style-type: none"> Solution preparation Solvent Blue 35 is dissolved in isopropanol or acetone. The appropriate dissolution concentration is usually in the range of 0.1-1.0% (w/v). The specific concentration should be adjusted according to the experimental requirements. Tissue staining <ol style="list-style-type: none"> In tissue staining experiments, Solvent Blue 35 is often used to stain triglycerides in animal tissues. During the staining process, tissue samples are usually dehydrated, transparentized, and other treatments. Add the dissolved dye solution to tissue sections or tissue samples. The staining time is usually 30 minutes to 1 hour. The specific time can be optimized according to the experimental requirements. After staining, the tissue sample can be observed under a microscope. Solvent Blue 35 can bind to lipid components and show significant blue fluorescence. Lipid detection <ol style="list-style-type: none"> Solvent Blue 35 is often used to detect the accumulation of lipids (such as triglycerides). During the staining process, it can bind to the fatty acid part of the triglyceride molecule to produce color changes or fluorescent signals. By using a microscope or other imaging equipment, researchers can observe the accumulation of lipids in cells or tissues. Cleaning and observation: <ol style="list-style-type: none"> After staining, use an appropriate cleaning solution to remove unbound dye to avoid affecting the experimental results. Generally, a solution containing a small amount of organic solvent or water is used for washing. Use a microscope to examine the sample. The blue staining effect of Solvent Blue 35 can clearly mark the location of triglycerides. <p>Note:The Solvent Blue 35 dye solution should be stored in a cool and dry place and avoid exposure to strong light. Unused dye solution should avoid repeated freezing and thawing.</p>

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The above information is based on published literature. Experimental procedures should be appropriately modified to meet specific research demands.

Solubility Information

Solubility

DMSO: 40 mg/mL (114.14 mM), Sonication is recommended.
(< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.8535 mL	14.2674 mL	28.5347 mL
5 mM	0.5707 mL	2.8535 mL	5.7069 mL
10 mM	0.2853 mL	1.4267 mL	2.8535 mL
50 mM	0.0571 mL	0.2853 mL	0.5707 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

Esmaeili SV, et al. Virtual screening study for biological activity assessment and metabolism pathway of a fuel dye in airborne exposure scenario. Toxicol Ind Health. 2025 Jan;41(1):1-10.

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