

Sudan III Staining Solution

Cat. No.: S774204 | Pack size: 500 µL / 100 mL / 500 mL | Storage: Room temperature, protected from light

Overview

Sudan dye is more soluble in lipids than in solvents. When the dye contacts lipid-containing samples, a large amount of dye penetrates into lipid structures and stains them red.

Instructions for Use

1. Rinse coverslips 3 times with Hanks solution.
2. Fix samples with formaldehyde-calcium fixative for 20 minutes.
3. Rinse coverslips 3 times with distilled water.
4. Wash coverslips 3 times with 95% ethanol.
5. Fully cover specimens with Sudan III staining solution and stain for 10–30 minutes.
6. Rinse coverslips 3 times with 95% ethanol.
7. Mount slides with glycerol gelatin and observe.

Staining Result:

Stained Structure	Result
Lipids	Orange-red

Precautions

1. Prepare formaldehyde-calcium fixative personally: mix 10 mL formaldehyde and 1 g calcium chloride, add water to make 100 mL solution.
2. Conduct preliminary tests with 1 to 2 samples before formal use.
3. Wear lab coat and gloves for personal protection during operation.

Specifications

Item	Specification
Product Name	Sudan III Staining Solution, CAS No.85-86-9
Specifications & Purity	BioReagent, Biological Stain, for microscopy, 0.1%
Stability And Storage	Store at room temperature for 12 months. Store in the dark.
Storage	Protected from light, Room temperature
Shipped In	Normal
CAS	85-86-9
EC Number	201-638-4

Names and Identifiers

Identifier	Value
Canonical SMILES	<chem>C1=CC=C(C=C1)N=NC2=CC=C(C=C2)N=NC3=C(C=CC4=CC=CC=C43)O</chem>
IUPAC Name	1-[(4-phenyldiazenylphenyl)diazenyl]naphthalen-2-ol
InChIKey	FHNINJWBTRXEBC-UHFFFAOYSA-N
INCHI	1S/C22H16N4O/c27-21-15-10-16-6-4-5-9-20(16)22(21)26-25-19-13-11-18(12-14-19)24-23-17-7-2-1-3-8-17/h1-15,27H
Isomeric SMILES	<chem>C1=CC=C(C=C1)N=NC2=CC=C(C=C2)N=NC3=C(C=CC4=CC=CC=C43)O</chem>
WGK Germany	3
RTECS	QK4250000
PubChem CID	62331
Molecular Weight	352.39
Beilstein	931185
Reaxys-Rn	6528173

Contact & Global Offices

Whether you have a technical question, need help with a quotation, or want to inquire about an order, our regional teams are ready to assist. Please contact the office for your region; for general inquiries, the North American office is the corporate primary.

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Limitations & Disclaimer

- For Research Use Only (RUO). Not for use in human or animal diagnostics, therapeutics, or in vivo applications. Not for food, cosmetic, or household use.
- This product is not a CE-marked in vitro diagnostic device under IVDR (EU) 2017/746 and is not an FDA-cleared device under 21 CFR. Use is restricted to verified businesses, institutions, and qualified professionals for research and development purposes.
- Where any kit component is classified as hazardous under CLP (EC) 1272/2008 or OSHA HCS (29 CFR 1910.1200), the product Safety Data Sheet (SDS) takes precedence over this document for handling, storage, and disposal information.
- Performance depends on sample type, sample condition, handling, and operator technique. Users are responsible for validating the product for their specific application.
- Aladdin product labels, SDS, COA, and approved specifications take precedence over this document. If product formulation, label, SDS, storage conditions, pack size, or quality specifications change, this document would be reviewed and reissued.