



SZABO SCANDIC

Part of Europa Biosite

Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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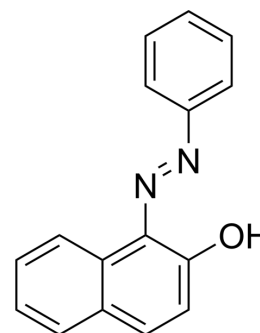
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Sudan I

Cat. No.:	HY-D0024
CAS No.:	842-07-9
Molecular Formula:	C ₁₆ H ₁₂ N ₂ O
Molecular Weight:	248
Target:	Bacterial
Pathway:	Anti-infection
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 10 mg/mL (40.32 mM; Need ultrasonic)
H₂O : < 0.1 mg/mL (ultrasonic) (insoluble)

Solvent	Mass	Concentration		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	4.0323 mL	20.1613 mL	40.3226 mL
	5 mM	0.8065 mL	4.0323 mL	8.0645 mL
	10 mM	0.4032 mL	2.0161 mL	4.0323 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

Sudan I (Solvent Yellow 14) is a diazo-conjugate red dye and can be used as an additive to products such as oils, solvents or polishes. Sudan I inhibits growth of bacterial strains *Clostridium perfringens* and *L. rhamnosus*^[1].

In Vitro

Sudan I is a monoazo dye with the chemical formula of 1-phenylazo-2-naphthol. Sudan I can cause tumors in the liver or urinary bladder in mammals and is a potential mutagen and carcinogen for humans. Sudan I induces genotoxic effect in HepG2 cells and increases mutagenic and clastogenic effects in the MCL-5 cell lines compared to the AHH-1 cell line. In addition, Sudan I also gives positive results in *Salmonella Typhimurium* mutagenicity tests with S9 activation, a post-mitochondrial fraction prepared from the livers of rats^[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Hongmiao Pan, et al. Evaluation of impact of exposure of Sudan azo dyes and their metabolites on human intestinal bacteria. *Anaerobe*. 2012 Aug;18(4):445-53.

Caution: Product has not been fully validated for medical applications. For research use only.

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