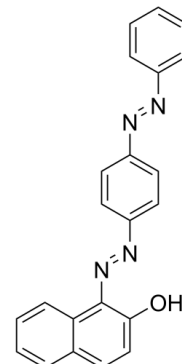


Data Sheet

Product Name:	Sudan III
Cat. No.:	CS-0016887
CAS No.:	85-86-9
Molecular Formula:	C ₂₂ H ₁₆ N ₄ O
Molecular Weight:	352.39
Target:	Fluorescent Dye
Pathway:	Others
Solubility:	DMSO : 2.27 mg/mL (6.44 mM; ultrasonic and warming and heat to 60°C)



BIOLOGICAL ACTIVITY:

Sudan III is a hydrophobic bisazo dye^[1]. *In Vitro*: Sudan III changes its color from orange to blue against a small volume of sulfuric acid, and the acetonitrile solution of Sudan III is the most suitable for observing the color-change phenomenon. H-NMR and UV-Vis spectroscopic studies show that the color-change mechanism of Sudan III against sulfuric acid is due to the protonation of the dye by sulfuric acid^[1].

References:

[1]. Sakurai T, et al. Color Change of Sudan III against Concentrated Sulfuric Acid in Acetonitrile and Quantification for a Small Amount of Concentrated Sulfuric Acid. *Anal Sci.* 2016;32(2):129-33.

CAIndexNames:

2-Naphthalenol, 1-[2-[4-(2-phenyldiazenyl)phenyl]diazenyl]-

SMILES:

OC1=CC=C2C=CC(=C2)C1=N/N/C3=CC=C(N=N/C4=CC=CC=C4)C=C3

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

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