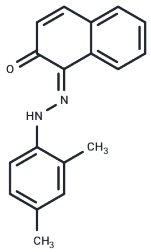
# Data Sheet (Cat.No.TN2363)

TargetMol

## Sudan II

### Chemical Properties



CAS No. : 3118-97-6

Formula: C18H16N2O

Molecular Weight: 276.33

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 | Sudan II (Solvent Orange 7) is a dyes. |
| Targets(IC50) | Others |
| Cell Research | Fat staining experiment<br>a. Material preparation: Sudan II stain, 70% ethanol solution, tissue sections or cell smears containing fat to be tested, microscope, etc.<br>b. Experimental steps:<br>1. Fix the tissue sections or cell smears with 70% ethanol solution for 5-10 minutes, and then dry naturally;<br>2. Add Sudan II stain to the sections or smears and stain for 10-15 minutes;<br>3. Rinse with 70% ethanol solution to remove excess stain, and then rinse with distilled water;<br>4. After drying, observe under a microscope, the fat is stained orange-red.<br><br>The above information is based on published literature. Experimental procedures should be appropriately modified to meet specific research demands. |

### Solubility Information

| | |
|---|---|
| Solubility | DMSO: 28 mg/mL (101.33 mM),Sonication is recommended.<br>(< 1 mg/ml refers to the product slightly soluble or insoluble) |

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|---|---|---|---|
| 1 mM | 3.6189 mL | 18.0943 mL | 36.1886 mL |
| 5 mM | 0.7238 mL | 3.6189 mL | 7.2377 mL |
| 10 mM | 0.3619 mL | 1.8094 mL | 3.6189 mL |
| 50 mM | 0.0724 mL | 0.3619 mL | 0.7238 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

Li L, et al. Binding of Sudan II and IV to lecithin liposomes and E. coli membranes: insights into the toxicity of hydrophobic azo dyes. BMC Struct Biol. 2007 Mar 27;7:16.