# Methyl Orange

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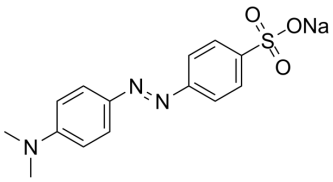
|---|---|
| **Cat. No.:** | HY-118907 |
| **CAS No.:** | 547-58-0 |
| **Molecular Formula:** | $C_{14}H_{14}N_3NaO_3S$ |
| **Molecular Weight:** | 327.33 |
| **Target:** | Fluorescent Dye |
| **Pathway:** | Others |

**Storage:**

| | | |
|---|---|---|
| Powder | -20°C | 3 years |
| | 4°C | 2 years |
| In solvent | -80°C | 6 months |
| | -20°C | 1 month |



## SOLVENT & SOLUBILITY

**In Vitro**

DMSO : 62.5 mg/mL (190.94 mM; ultrasonic and warming and heat to 60°C)

| Preparing Stock Solutions | Solvent / Mass / Concentration | 1 mg | 5 mg | 10 mg |
|---|---|---|---|---|
| | 1 mM | 3.0550 mL | 15.2751 mL | 30.5502 mL |
| | 5 mM | 0.6110 mL | 3.0550 mL | 6.1100 mL |
| | 10 mM | 0.3055 mL | 1.5275 mL | 3.0550 mL |

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

**In Vivo**

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 2.08 mg/mL (6.35 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.08 mg/mL (6.35 mM); Clear solution

## BIOLOGICAL ACTIVITY

**Description**

Methyl Orange is an azo dye and organic contaminant[1].

## REFERENCES

[1]. Ahmad M, et al. Photocatalytic degradation of methyl orange from wastewater using a newly developed Fe-Cu-Zn-ZSM-5 catalyst. Environ Sci Pollut Res Int. 2020;27(21):26239-26248.

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

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