1,4-Diazabicyclo[2.2.2]octane

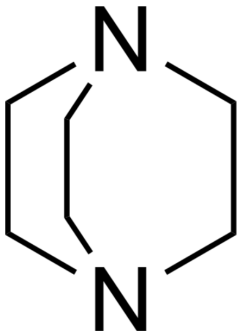
Cat. No.: HY-Y0566

CAS No.: 280-57-9

Molecular Formula: $C_6H_{12}N_2$

Molecular Weight: 112.17

Storage: 4°C, protect from light, stored under nitrogen
* In solvent : -80°C, 6 months; -20°C, 1 month (protect from light, stored under nitrogen)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (891.50 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	8.9150 mL	44.5752 mL	89.1504 mL
	5 mM	1.7830 mL	8.9150 mL	17.8301 mL
	10 mM	0.8915 mL	4.4575 mL	8.9150 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: ≥ 2.5 mg/mL (22.29 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (22.29 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (22.29 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

1,4-Diazabicyclo[2.2.2]octane is a biochemical reagent that can be used as a biological material or organic compound for life science related research.

In Vitro

1,4-Diazabicyclo[2.2.2]octane is used as polyurethane catalyst, Balis-Hillman reaction catalyst complexing ligand and lewis base. It finds use in dye lasers and in mounting samples for fluorescence microscopy and as anti-fade reagent shown to sca Venge free radicals due to flurochrome excitation of fluorochromes. Furthermore, it is an oxidation and polymerization catalyst.

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

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

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