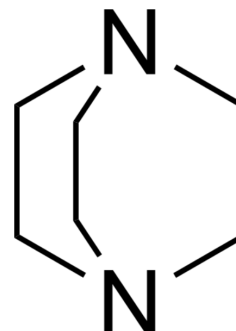


## 1,4-Diazabicyclo[2.2.2]octane

**Cat. No.:** HY-Y0566  
**CAS No.:** 280-57-9  
**Molecular Formula:** C<sub>6</sub>H<sub>12</sub>N<sub>2</sub>  
**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   | <div><div>Solvent</div><div>Concentration</div></div> | Mass | 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<br>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)<br>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 scavenge free radicals due to fluorochrome excitation of fluorochromes. Furthermore, it is an oxidation and polymerization catalyst.<br>MCE has not independently confirmed the accuracy of these methods. They are for reference only. |

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

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