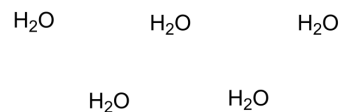
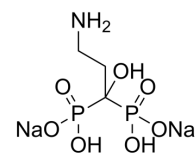


## Pamidronate disodium pentahydrate

|                           |  |
|---------------------------|--|
| <b>Cat. No.:</b>          | HY-B0730   |
| <b>CAS No.:</b>           | 109552-15-0  |
| <b>Molecular Formula:</b> | C <sub>5</sub> H <sub>19</sub> NNa <sub>2</sub> O <sub>12</sub> P <sub>2</sub>   |
| <b>Molecular Weight:</b>  | 369.11   |
| <b>Target:</b>            | Bacterial  |
| <b>Pathway:</b>           | Anti-infection   |
| <b>Storage:</b>           | 4°C, sealed storage, away from moisture<br>* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture) |



### SOLVENT & SOLUBILITY

#### In Vitro

H<sub>2</sub>O : 7.14 mg/mL (19.34 mM; Need ultrasonic)  
DMSO : < 1 mg/mL (insoluble or slightly soluble)

| Preparing Stock Solutions | Solvent Concentration | Mass      |            |            |
|---------------------------|-----------------------|-----------|------------|------------|
|                           |                       | 1 mg      | 5 mg       | 10 mg      |
|                           | 1 mM                  | 2.7092 mL | 13.5461 mL | 27.0922 mL |
|                           | 5 mM                  | 0.5418 mL | 2.7092 mL  | 5.4184 mL  |
|                           | 10 mM                 | 0.2709 mL | 1.3546 mL  | 2.7092 mL  |

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

#### In Vivo

1. Add each solvent one by one: PBS  
Solubility: 20 mg/mL (54.18 mM); Clear solution; Need ultrasonic and warming and heat to 60°C

### BIOLOGICAL ACTIVITY

#### Description

Pamidronate disodium pentahydrate is a nitrogen-containing bisphosphonate, used to prevent osteoporosis.

### REFERENCES

- [1]. Kubalek I, et al. Treatment of reflex sympathetic dystrophy with pamidronate: 29 cases. Rheumatology (Oxford). 2001 Dec;40(12):1394-7.
- [2]. Zarychanski R, et al. Osteonecrosis of the jaw associated with pamidronate therapy. Am J Hematol. 2006 Jan;81(1):73-5.

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

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