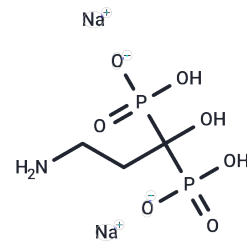


Pamidronate Disodium

Chemical Properties

| | |
|-------------------|---|
| CAS No. : | 57248-88-1 |
| Formula: | C ₃ H ₉ NNa ₂ O ₇ P ₂ |
| Molecular Weight: | 279.03 |
| Storage: | 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 | Pamidronate Disodium (CGP 23339A), a nitrogen-containing bisphosphonate, can help to strengthen bones. |
| Targets(IC50) | Antibacterial,RANKL/RANK,HBV,TLR,Wnt/beta-catenin |
| In vitro | In ovariectomized rats, Pamidronate significantly enhanced bone density and trabecular weight. Additionally, in rats treated with Growth Hormone (GH), Pamidronate reduced the levels of IGF-I. |
| In vivo | In human osteoblast-like cells, Pamidronate (1 μM) enhances the level of OPG mRNA and protein secretion in a dose-dependent manner. Additionally, in mouse osteoclast-like cells (IC50=0.58 μM), Pamidronate inhibits the resorption of calcium phosphate films. |

Solubility Information

| | |
|------------|---|
| Solubility | DMSO: Insoluble, H ₂ O: 10 mM,Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble) |
|------------|---|

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|------------|------------|
| 1 mM | 3.5838 mL | 17.9192 mL | 35.8384 mL |
| 5 mM | 0.7168 mL | 3.5838 mL | 7.1677 mL |
| 10 mM | 0.3584 mL | 1.7919 mL | 3.5838 mL |
| 50 mM | 0.0717 mL | 0.3584 mL | 0.7168 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

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- Kapitola J, et al. Physiol Res,1998, 47(4), 237-240.
- Kapitola J, et al. Physiol Res,2000, 49, S101-106.

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