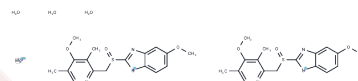


## Esomeprazole Magnesium trihydrate

## Chemical Properties

CAS No. : 217087-09-7  
 Formula: C<sub>34</sub>H<sub>42</sub>MgN<sub>6</sub>O<sub>9</sub>S<sub>2</sub>  
 Molecular Weight: 767.17  
 Storage: Store at low temperature  
 Powder: -20°C for 3 years

Actual storage temperature shall be subject to the COA.



## Biological Description

|               |  |
|---------------|--|
| Description   | Esomeprazole Magnesium trihydrate ((S)-Omeprazole magnesium trihydrate) is a proton pump inhibitor indicated for the short-term treatment of gastroesophageal reflux disease in patients with a history of erosive esophagitis. Esomeprazole magnesium trihydrate acts as an exosome inhibitor by blocking the exosome release via the inhibition of V-H <sup>+</sup> -ATPases |
| Targets(IC50) | Proton pump  |

## Solubility Information

|                     |   |
|---------------------|---|
| Solubility          | DMSO: 50 mg/mL (65.17 mM), Sonication is recommended.<br>(< 1 mg/ml refers to the product slightly soluble or insoluble)  |
| In vivo Formulation | 10% DMSO+40% PEG300+5% Tween 80+45% Saline: 5 mg/mL (6.52 mM), Sonication is recommended.<br><i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i> |

### Preparing Stock Solutions

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|       | 1mg       | 5mg       | 10mg       |
|-------|-----------|-----------|------------|
| 1 mM  | 1.3035 mL | 6.5175 mL | 13.0349 mL |
| 5 mM  | 0.2607 mL | 1.3035 mL | 2.607 mL   |
| 10 mM | 0.1303 mL | 0.6517 mL | 1.3035 mL  |
| 50 mM | 0.0261 mL | 0.1303 mL | 0.2607 mL  |

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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

Johnson TJ, Hedge DD. Esomeprazole: a clinical review. Am J Health Syst Pharm. 2002 Jul 15;59(14):1333-9.  
Sandström M, Davidson G, Tolia V, et al. Phase I, Multicenter, Randomized, Open-Label Study Evaluating the Pharmacokinetics and Safety Profile of Repeated Once-Daily Doses of Intravenous Esomeprazole in Children 0 to 17 Years of Age. Clinical Therapeutics, 2012, 34(8):1828-1838.

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