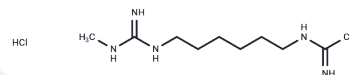


Poly(hexamethylenebiguanide) hydrochloride

Chemical Properties

| | |
|-------------------|---|
| CAS No. : | 32289-58-0 |
| Formula: | (C ₈ H ₁₇ N ₅) _n .xHCl |
| Molecular Weight: | 249.79 |
| Storage: | Keep away from moisture Powder: -20°C for 3 years In solvent: -80°C for 1 year <i>Actual storage temperature shall be subject to the COA.</i> |



Biological Description

| | |
|---------------|---|
| Description | Poly(hexamethylenebiguanide) hydrochloride, serving as an antimicrobial agent, finds applications across various fields including medical, apparel, and household textiles [1]. |
| Targets(IC50) | Antibacterial |

Solubility Information

| | |
|---------------------|--|
| Solubility | DMSO: 80.00 mg/mL (320.27 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble) |
| In vivo Formulation | 10% DMSO+40% PEG300+5% Tween 80+45% Saline: 3.30 mg/mL (13.21 mM),Sonication is recommended. <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

| | 1mg | 5mg | 10mg |
|-------|-----------|------------|------------|
| 1 mM | 4.0034 mL | 20.0168 mL | 40.0336 mL |
| 5 mM | 0.8007 mL | 4.0034 mL | 8.0067 mL |
| 10 mM | 0.4003 mL | 2.0017 mL | 4.0034 mL |
| 50 mM | 0.0801 mL | 0.4003 mL | 0.8007 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

Souza C, et al. Mucoadhesive system formed by liquid crystals for buccal administration of poly(hexamethylene biguanide) hydrochloride. J Pharm Sci. 2014 Dec;103(12):3914-3923.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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