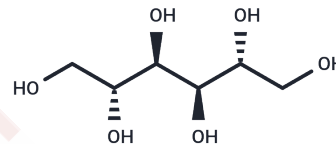


DL-Mannitol

Chemical Properties

| | |
|-------------------|---|
| CAS No. : | 87-78-5 |
| Formula: | C ₆ H ₁₄ O ₆ |
| Molecular Weight: | 182.17 |
| 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 | DL-Mannitol is an osmotic diuretic, it may play a role in reducing off-target ⁶⁸ Ga-PSMA renal uptake |
| Targets(IC50) | Others |

Solubility Information

| | |
|------------|---|
| Solubility | H ₂ O: 50 mg/mL (274.47 mM), Sonication is recommended. DMSO: 27.5 mg/mL (150.96 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble) |
|------------|---|

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|------------|------------|
| 1 mM | 5.4894 mL | 27.4469 mL | 54.8938 mL |
| 5 mM | 1.0979 mL | 5.4894 mL | 10.9788 mL |
| 10 mM | 0.5489 mL | 2.7447 mL | 5.4894 mL |
| 50 mM | 0.1098 mL | 0.5489 mL | 1.0979 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

- Mendelow AD, et al. Effect of mannitol on cerebral blood flow and cerebral perfusion pressure in human head injury. J Neurosurg. 1985 Jul;63(1):43-8.
- Matteucci F, et al. Reduction of ⁶⁸Ga-PSMA renal uptake with mannitol infusion: preliminary results. Eur J Nucl Med Mol Imaging. 2017 Dec;44(13):2189-2194.

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481