

## D-Mannuronic Acid

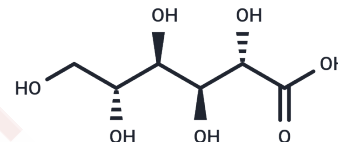
## Chemical Properties

CAS No. : 6906-37-2

Formula: C<sub>6</sub>H<sub>12</sub>O<sub>7</sub>

Molecular Weight: 196.16

Storage: Store at low temperature, Keep away from direct sunlight, Keep away from moisture  
 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   | D-Mannuronic Acid is a uronic acid monosaccharide widely utilized in the manufacturing of alginate polymers. D-Mannuronic Acid has applications in the study of cancer biology due to its structural and biochemical relevance in carbohydrate-based processes, as well as its utility as a biochemical building block in glycobiology and biomaterials research. |
| Targets(IC50) | Others  |

## Preparing Stock Solutions

|       | 1mg       | 5mg        | 10mg       |
|-------|-----------|------------|------------|
| 1 mM  | 5.0979 mL | 25.4894 mL | 50.9788 mL |
| 5 mM  | 1.0196 mL | 5.0979 mL  | 10.1958 mL |
| 10 mM | 0.5098 mL | 2.5489 mL  | 5.0979 mL  |
| 50 mM | 0.102 mL  | 0.5098 mL  | 1.0196 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

- Vojdanian M, et al. The Anti-Migraine Effects of M2000 ( $\beta$ -D-Mannuronic Acid) on a Patient with Rheumatoid Arthritis: Case Report. *Curr Clin Pharmacol*. 2017;12(2):127-130.
- Sanka I, et al. The effects of diatom pore-size on the structures and extensibilities of single mucilage molecules. *Carbohydr Res*. 2017 May 26;448:35-42.
- Barati A, et al. Effects of  $\beta$ -d-mannuronic acid, as a novel non-steroidal anti-inflammatory medication within immunosuppressive properties, on IL17, ROR $\gamma$ t, IL4 and GATA3 gene expressions in rheumatoid arthritis patients. *Drug Des Devel Ther*. 2017 Mar 30;11:1027-1033.
- Stewart MB, et al. A structural basis for the amphiphilic character of alginates - Implications for membrane fouling. *Carbohydr Polym*. 2017 May 15;164:162-169.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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