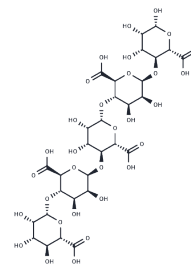


## D-Pentamannuronic acid

### Chemical Properties

|                   |   |
|-------------------|---|
| CAS No. :         | 183668-50-0   |
| Formula:          | C30H42O31   |
| Molecular Weight: | 898.635   |
| Storage:          | Powder: -20°C for 3 years   In solvent: -80°C for 1 year<br>Actual storage temperature shall be subject to the COA. |



### Biological Description

|               |   |
|---------------|---|
| Description   | D-Pentamannuronic acid is an alginate oligomer, synthesized by marine brown algae and a select group of Gram-negative bacteria. This chemical compound is valuable for research related to pain and vascular dementia[4]. |
| Targets(IC50) | Others,Antibacterial  |

### Preparing Stock Solutions

|       | 1mg       | 5mg       | 10mg       |
|-------|-----------|-----------|------------|
| 1 mM  | 1.1128 mL | 5.564 mL  | 11.1279 mL |
| 5 mM  | 0.2226 mL | 1.1128 mL | 2.2256 mL  |
| 10 mM | 0.1113 mL | 0.5564 mL | 1.1128 mL  |
| 50 mM | 0.0223 mL | 0.1113 mL | 0.2226 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

- Heyraud A, et, al. HPLC analysis of saturated or unsaturated oligoguluronates and oligomannuronates. Application to the determination of the action pattern of *Halictis tuberculata* alginate lyase. *Carbohydr Res.* 1996 Sep 23; 291:115-26.
- Iwamoto M, et, al. Structure-activity relationship of alginate oligosaccharides in the induction of cytokine production from RAW264.7 cells. *FEBS Lett.* 2005 Aug 15; 579(20): 4423-9.
- Geng M, et, al. Application of sodium alginate oligose and derivative to treatment of pain. CN106344595A.
- Geng M, et, al. Application of sodium alginate oligose and derivative to treatment of vascular dementia. CN106344593A.

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