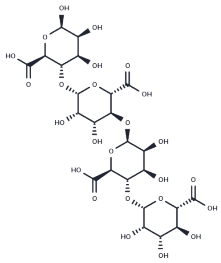
Data Sheet (Cat.No.T38981)

TargetMol

D-Tetramannuronic acid

Chemical Properties



CAS No. : 149511-34-2

Formula: C24H34O25

Molecular Weight: 722.511

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	D-Tetramannuronic acid, an alginate oligomer derived from marine brown algae and certain Gram-negative bacteria, is a valuable compound for pain and vascular dementia research [4].
Targets(IC50)	Others,Antibacterial

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.3841 mL	6.9203 mL	13.8406 mL
5 mM	0.2768 mL	1.3841 mL	2.7681 mL
10 mM	0.1384 mL	0.692 mL	1.3841 mL
50 mM	0.0277 mL	0.1384 mL	0.2768 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 Haliotis 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.

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