Product Data Sheet

Product Name: D-Pentamannuronic acid
Cat. No.: GC60792

Chemical Properties

Cas. No.	183668-50-0		
SMILES	OC([C@@H](O[C@H]1O[C@@H]([C@@H]([C@@H]2O)O)[C@H](O[C@H]2O[C@@H]([C@@H]([C@@H]3O)O)[C@H](O[C@H]3O)C(O)=O)C(O)=O)[C@H]([C@@H]([C@@H]1O)O)O[C@@H]([C@H]([C@H]4O)O)O[C@@H]([C@H]4O[C@@H]([C@H]([C@H]5O)O)O[C@@H]([C@H]5O)C(O)=O)C(O)=O)=O		
Formula	$C_{30}H_{42}O_{31}$	M.Wt	898.64
Solubility		Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 ℃ and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20℃ for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		
Structure	D-Pentamannuronic acid		

Background

D-Pentamannuronic acid, an alginate oligomer, is produced by marine brown algae and by a limited range of Gram negative bacteria. D-Pentamannuronic acid can be used for the research of pain and vascular dementia[1][2][3][4].

[1]. 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. [2]. 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. [3]. Geng M, et, al. Application of sodium alginate oligose and derivative to treatment of pain. CN106344595A. [4]. Geng M, et, al. Application of sodium alginate oligose and derivative to treatment of vascular dementia. CN106344593A.

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