

Product Data Sheet

Product Name: D-Nonamannuronic acid

Cat. No.: GC60787

Chemical Properties

Cas. No. 862694-99-3

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@@H]([C@@H]([C@@H]4O)O)[C@H](O[C@H]4O[C@@H]([C@@H]([C@@H]5O)O)[C@H](O[C@H]5O)C(O)=O)C(O)=O)C(O)=O)C(O)=O)[C@H]([C@@H]([C@@H]1O)O)O[C@@H]([C@H]([C@H]6O)O)O[C@@H]([C@H]6O[C@@H]([C@H]([C@H]7O)O)O[C@@H]([C@H]7O[C@@H]([C@H]([C@H]8O)O)O[C@@H]([C@H]8O[C@@H]([C@H]([C@H]9O)O)O[C@@H]([C@H]9O)C(O)=O)C(O)=O)C(O)=O)C(O)=O)=O

Formula C₅₄H₇₄O₅₅ M.Wt 1603.13

Solubility Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C 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

Background

D-Nonamannuronic acid, an alginate oligomer, is produced by marine brown algae and by a limited range of Gram negative bacteria. D-Nonamannuronic 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.

Caution: Product has not been fully validated for medical applications. For research use only.

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

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