

Product Data Sheet

Product Name: Chitoheptaose heptahydrochloride

Cat. No.: GC60693

Chemical Properties

Cas. No. 127171-89-5

SMILES OC[C@@H](O[C@H]1O[C@@H]([C@@H]([C@H]2N)O)[C@H](O[C@H]2O[C@H]([C@H](O)CO)[C@H](O)[C@@H](N)C=O)CO)[C@H]([C@@H]([C@H]1N)O)O[C@@H]([C@@H]([C@H]3O)N)O[C@@H]([C@H]3O[C@@H]([C@@H]([C@H]4O)N)O[C@@H]([C@H]4O[C@@H]([C@@H]([C@H]5O)N)O[C@@H]([C@H]5O[C@@H]([C@@H]([C@H]6O)N)O[C@@H]([C@H]6O)CO)CO)CO)CO)CO)Cl.Cl.Cl.Cl.Cl.Cl.Cl.Cl

Formula C₄₂H₈₆Cl₇N₇O₂₉ M.Wt 1401.33

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

Chitoheptaose heptahydrochloride is a chitosan oligosaccharide with antioxidant, anti-inflammatory, antiapoptotic and cardioprotective activities. Chitoheptaose heptahydrochloride significantly enhances the growth and photosynthesis parameters of wheat seedlings[1][2].

[1]. Qini Zhao, et al. Chitoheptaose Promotes Heart Rehabilitation in a Rat Myocarditis Model by Improving Antioxidant, Anti-Inflammatory, and Antiapoptotic Properties. *Oxid Med Cell Longev.* 2020 Apr 11;2020:2394704. [2]. Xiaoqian Zhang, et al. Size effects of chitooligomers on the growth and photosynthetic characteristics of wheat seedlings. *Carbohydr Polym.* 2016 Mar 15;138:27-33.

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

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