
Product Data Sheet

Product Name: Chitopentaose pentahydrochloride

Cat. No.: GC60695

Chemical Properties

Cas. No. 117467-64-8

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)CO)CO.Cl.Cl.Cl.Cl.Cl

Formula C₃₀H₆₂Cl₅N₅O₂₁ M.Wt 1006.1Solubility H₂O : 250 mg/mL (248.48 mM; Need ultrasonic) 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

Chitopentaose pentahydrochloride is a chitosan oligosaccharide with anti-inflammatory effect. Chitopentaose pentahydrochloride is a substrate of gene encoding chitinase B (FjchiB)[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]. Papa Rao Vaikuntapu, et al. Applicability of endochitinase of *Flavobacterium johnsoniae* with transglycosylation activity in generating long-chain chitooligosaccharides. *Int J Biol Macromol.* 2018 Oct 1;117:62-71.

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

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