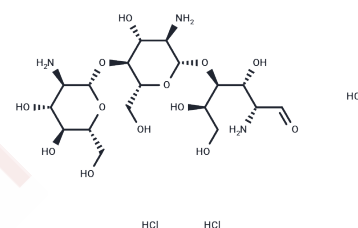


## Chitotriose trihydrochloride

## Chemical Properties

CAS No. : 117436-78-9  
 Formula: C<sub>18</sub>H<sub>38</sub>Cl<sub>3</sub>N<sub>3</sub>O<sub>13</sub>  
 Molecular Weight: 610.87  
 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	Chitotriose trihydrochloride is an orally bioactive chito oligosaccharide characterized by its antioxidant properties, which manifest through the inhibition of H <sub>2</sub> O <sub>2</sub> -induced hydroxylation of benzoate in the presence of Cu <sup>2+</sup> ions with an IC <sub>50</sub> of 80 μM, and it also functions as a competitive inhibitor of lysozyme activity, suppressing constitutive lysozyme production in macrophages.
Targets(IC <sub>50</sub> )	Antioxidant

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.637 mL	8.185 mL	16.3701 mL
5 mM	0.3274 mL	1.637 mL	3.274 mL
10 mM	0.1637 mL	0.8185 mL	1.637 mL
50 mM	0.0327 mL	0.1637 mL	0.3274 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

An-Shu Chen, et al. Antioxidant activities of chitobiose and chitotriose. *Biol Pharm Bull.* 2003 Sep;26(9):1326-30.  
 Akiyama K, et al. A novel method for chemo-enzymatic synthesis of elicitor-active chitosan oligomers and partially N-deacetylated chitin oligomers using N-acylated chitotrioses as substrates in a lysozyme-catalyzed transglycosylation reaction system. *Carbohydr Res.* 1995 Dec 27;279:151-60.

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