Product Data Sheet

Product Name: Chitohexaose hexahydrochloride
Cat. No.: GC60694

Chemical Properties

Cas. No.	127171-88-4		
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)CO)CO)CO.Cl.Cl.Cl.Cl.Cl.Cl		
Formula	$C_{36}H_{74}Cl_6N_6O_{25}$	M.Wt	1203.72
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			

Background

Chitohexaose hexahydrochloride is a chitosan oligosaccharide with anti-inflammatory effect. Chitohexaose hexahydrochloride binds to the active sites of TLR4 and inhibits LPS induced inflammation[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]. Santosh K Panda, et al. Chitohexaose activates macrophages by alternate pathway through TLR4 and blocks endotoxemia. PLoS Pathog. 2012;8(5):e1002717.

Caution: Product has not been fully validated for medical applications. For research use only.
Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com
Address: 10292 Central Ave. #205, Montclair, CA, USA