

Product Data Sheet

Product Name: Maltononaose

Cat. No.: GC47592

Chemical Properties

Cas. No. 6471-60-9

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](O)CO)[C@H](O)[C@@H](O)C=O)CO)[C@H]([C@@H]([C@H]1O)O)O[C@H]([C@@H]([C@H]3O)O)O[C@@H]([C@H]3O[C@H]([C@@H]([C@H]4O)O)O[C@@H]([C@H]4O[C@H]([C@@H]([C@H]5O)O)O[C@@H]([C@H]5O[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)CO)CO)CO)CO)CO)CO

Formula C₅₄H₉₂O₄₆ M.Wt 1477.3

Solubility DMF: 20 mg/ml, DMSO: 20 mg/ml, Storage Store at -20°C

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

Shipping Evaluation sample solution : ship with blue ice All other available size: ship with RT , or Condition blue ice upon request.

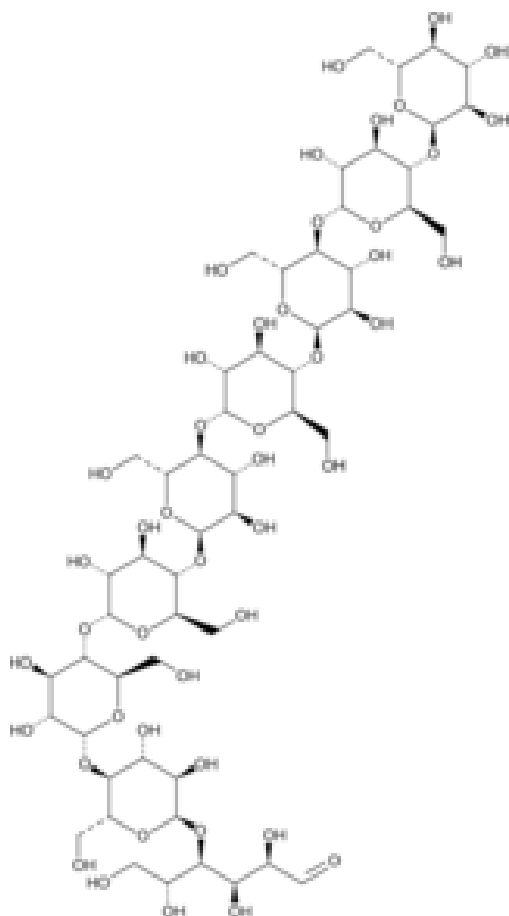
Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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Structure



Background

Maltonaose is an oligosaccharide comprised of nine α -1,4-linked glucose molecules.^{1,2} It has been used as a substrate to study the cleavage distribution and enzyme kinetics of *B. licheniformis* thermostable α -amylase, as well as the enzyme kinetics of *A. niger* glucoamylase II.^{1,3}

1. Ermer, J., Rose, K., Hübner, G., et al. Subsite affinities of *Aspergillus niger* glucoamylase II determined with p-nitrophenylmaltooligosaccharides. *Biol. Chem. Hoppe Seyler* 374(2)123-128 (1993)
2. Uchida, R., Nasu, A., Tobe, K., et al. A convenient preparation of maltooctaose and maltonaose by the coupling reaction of cyclomaltodextrinase. *Carbohydr. Res.* 287(2)271-274 (1996)
3. Tran, P.L., Lee, J.-S., and Park, K.-H. Experimental evidence for a 9-binding subsite of *Bacillus licheniformis* thermostable α -amylase. *FEBS Lett.* 588(4)620-624 (2014)

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