

Product Data Sheet

Product Name: L-Diguluronic acid

Cat. No.: GC60980

Chemical Properties

Cas. No. 34044-54-7

SMILES O[C@H]1[C@H]([C@H]([C@@H]([C@H](C(O)=O)O1)O[C@H]2[C@H]([C@H]([C@@H]([C@H](C(O)=O)O2)O)O)O)O

Formula $C_{12}H_{18}O_{13}$ M.Wt 370.26

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.

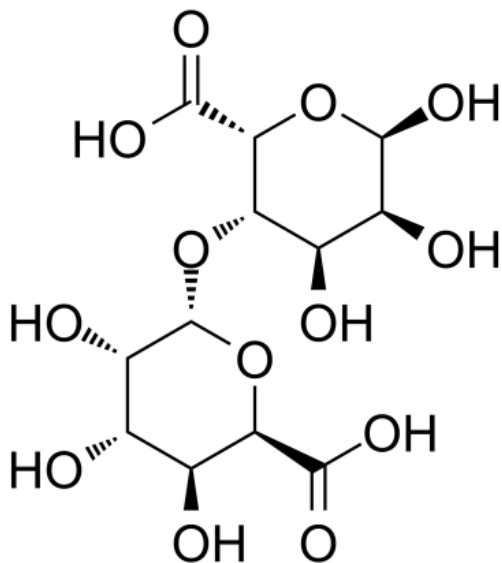
Caution: Product has not been fully validated for medical applications. For research use only.

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Structure



Background

L-Diguluronic acid is a linear polysaccharide copolymer composed of two L-guluronic acid (G) and can be used to form Alginate[1]. Alginate is a generic name of unbranched polyanionic polysaccharides and can be used for the research of antifungal agents delivery carriers[2].

Alginate is a generic name assigned to a series of polyanionic polysaccharides of β -D-mannuronic acid (M) and α -L-guluronic acid (G). Alginate is linked by a 1 $\rightarrow$ 4 linkage and displaying chain homosequences of MMM and GGG, interdispersed with MGM heterosequences[1]. Alginate is widely used for obtainment of drug delivery systems due to its non-toxicity, biodegradability, biocompatibility, mucoadhesive, and non-immunogenic properties. Additionally, alginate-based antifungal delivery systems have great potential in the treatment of fungal infections in vivo[1].

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[1]. R.A. Shirwaiker, et al. L-Guluronic Acid [2]. Cristina de Castro Spadari, et al. Potential Use of Alginate-Based Carriers As Antifungal Delivery System. Front Microbiol. 2017 Jan 30;8:97.

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