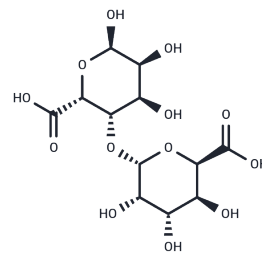


L-Diguluronic acid

Chemical Properties

CAS No. :	34044-54-7
Formula:	C ₁₂ H ₁₈ O ₁₃
Molecular Weight:	370.263
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	L-Diguluronic acid, a linear polysaccharide copolymer consisting of two L-guluronic acid (G) units, serves as a precursor for Alginate[1], a categorically unbranched polyanionic polysaccharide. Alginate finds application in the development of antifungal agent delivery carriers[2].
Targets(IC50)	Others,Antifungal
In vitro	Alginate is a term for a group of polyanionic polysaccharides composed of β-d-mannuronic acid (M) and α-l-guluronic acid (G), linked by 1→4 linkages, and characterized by MMM and GGG homosequences interspersed with MGM heterosequences[1].
In vivo	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].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.7008 mL	13.504 mL	27.008 mL
5 mM	0.5402 mL	2.7008 mL	5.4016 mL
10 mM	0.2701 mL	1.3504 mL	2.7008 mL
50 mM	0.054 mL	0.2701 mL	0.5402 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

R.A. Shirwaiker, et al. L-Guluronic Acid

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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