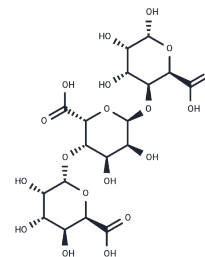


L-Triguluronic acid

Chemical Properties

CAS No. :	66754-14-1
Formula:	C ₁₈ H ₂₆ O ₁₉
Molecular Weight:	546.39
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	L-Triguluronic acid, a linear polysaccharide copolymer consisting of three L-guluronic acid (G) units, serves as a precursor for Alginate[1]. Alginate, an unbranched polyanionic polysaccharide, has applications in the development of delivery carriers for anti-fungal agents[2].
Targets(IC50)	Others,Antifungal
In vitro	Alginate, a term for a group of polyanionic polysaccharides composed of β-d-mannuronic acid (M) and α-l-guluronic acid (G), features 1→4 linkages with homosequences of MMM and GGG, along with interdispersed MGM heterosequences[1]. Thanks to its non-toxic, biodegradable, biocompatible, mucoadhesive, and non-immunogenic qualities, alginate is extensively utilized in developing drug delivery systems. Furthermore, its application in alginate-based antifungal delivery systems holds significant promise for treating fungal infections in vivo[1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.8302 mL	9.151 mL	18.3019 mL
5 mM	0.366 mL	1.8302 mL	3.6604 mL
10 mM	0.183 mL	0.9151 mL	1.8302 mL
50 mM	0.0366 mL	0.183 mL	0.366 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

Cristina de Castro Spadari, et al. Potential Use of Alginate-Based Carriers As Antifungal Delivery System. Front Microbiol. 2017 Jan 30;8:97.

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

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