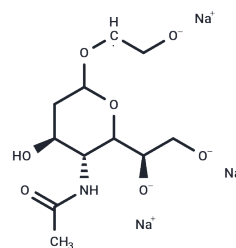


Colominic acid sodium salt

Chemical Properties

CAS No. :	70431-34-4
Formula:	C ₁₁ H ₁₇ NNa ₃ O ₇
Molecular Weight:	344.23
Storage:	Keep away from direct sunlight, Keep away from moisture 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	Colominic acid sodium salt is an N-acetylneuraminic acid homopolymer produced by Escherichia coli, used to study the process of protein polysialylation and exhibiting antibacterial activity.
Targets(IC50)	Antibacterial, Antibiotic
In vitro	Colominic acid sodium salt (Polysialic acid) specifically targets a narrow range of central nervous system components through N-glycosylation, including cell adhesion molecules like neural cell adhesion molecule (NCAM), synaptic cell adhesion molecule 1 (SynCAM1), and the neuropilin-2 receptor.[1]

Solubility Information

Solubility	H ₂ O: 80 mg/mL (232.4 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.905 mL	14.5252 mL	29.0503 mL
5 mM	0.581 mL	2.905 mL	5.8101 mL
10 mM	0.2905 mL	1.4525 mL	2.905 mL
50 mM	0.0581 mL	0.2905 mL	0.581 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

Osama I Alwassil, et al. Design, synthesis, and structural elucidation of novel NmeNANAS inhibitors for the treatment of meningococcal infection. PLoS One. 2019 Oct 16;14(10):e0223413.

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