

Product Data Sheet

Product Name: Colominic acid sodium salt from Escherichia coli

Cat. No.: GD08064

Chemical Properties

Cas. No. 70431-34-4

Formula M.Wt

Solubility H₂O : 100 mg/mL (Need ultrasonic) Storage -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.

Structure **Structure Not Available**

Background

Colominic acid sodium salt (Polysialic acid sodium salt) could be naturally isolated from the cell wall of Escherichia coli and animals, gives a red color which has an absorption maximum at 530 nm. Colominic acid sodium salt (Polysialic acid sodium salt) possesses anti-bacterial activity.

Colominic acid (Polysialic acid) is an form of N-glycosylation with great specificity for its limited central nervous system targets, including the cell adhesion molecules neural cell adhesion molecule (NCAM) and synaptic cell adhesion molecule 1 (SynCAM1), and the receptor, neuropilin-2^[2].

[1]. Guy T. Barry, et al. COLOMINIC ACID, A POLYMER OF N-ACETYLNEURAMINIC ACID. J Exp Med. 1958 Apr 1;107(4):507-21.

[2]. 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.

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

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