

## N-Acetylneuraminic acid

## Chemical Properties

CAS No. : 131-48-6

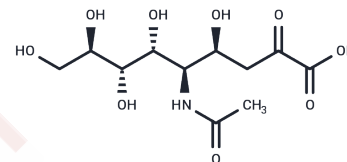
Formula: C<sub>11</sub>H<sub>19</sub>NO<sub>9</sub>

Molecular Weight: 309.27

Store at low temperature

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	N-Acetylneuraminic acid (Acide aceneuramique) is a nine-carbon sialic acid monosaccharide commonly found in glycoproteins on cell membranes and in glycolipids such as gangliosides in mammalian cells. Studies have shown that N-Acetylneuraminic acid is biologically useful for neurotransmission, leukocyte extravasation, viral or bacterial infections, and carbohydrate-protein recognition.
Targets(IC50)	Endogenous Metabolite, Influenza Virus, Tyrosinase, Ras

## Solubility Information

Solubility	H <sub>2</sub> O: 125 mg/mL (404.18 mM), Sonication is recommended. DMSO: 122 mg/mL (394.48 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	3.2334 mL	16.1671 mL	32.3342 mL
5 mM	0.6467 mL	3.2334 mL	6.4668 mL
10 mM	0.3233 mL	1.6167 mL	3.2334 mL
50 mM	0.0647 mL	0.3233 mL	0.6467 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

Severi E, et al. Microbiology. 2007 Sep;153(Pt 9):2817-22.

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