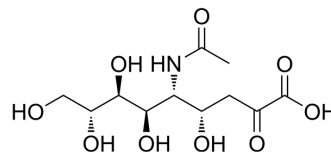


## N-Acetylneuraminic acid

Cat. No.:	HY-I0400
CAS No.:	131-48-6
Molecular Formula:	C <sub>11</sub> H <sub>19</sub> NO <sub>9</sub>
Molecular Weight:	309.27
Target:	Endogenous Metabolite; Influenza Virus
Pathway:	Metabolic Enzyme/Protease; Anti-infection
Storage:	-20°C, stored under nitrogen * In solvent : -80°C, 6 months; -20°C, 1 month (stored under nitrogen)



### SOLVENT & SOLUBILITY

In Vitro	H <sub>2</sub> O : ≥ 100 mg/mL (323.34 mM) * "≥" means soluble, but saturation unknown.					
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
			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
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: PBS Solubility: 100 mg/mL (323.34 mM); Clear solution; Need ultrasonic and warming and heat to 60°C					

### BIOLOGICAL ACTIVITY

Description	N-Acetylneuraminic acid is a nine-carbon, sialic acid monosaccharide commonly found in glycoproteins on cell membranes and in glycolipids such as gangliosides in mammalian cells. Studies suggest that N-Acetylneuraminic acid is useful biologically in neurotransmission, leukocyte extravasation, viral or bacterial infections and carbohydrate-protein recognition.			
IC <sub>50</sub> & Target	Human Endogenous Metabolite	Microbial Metabolite	Human Endogenous Metabolite	Microbial Metabolite

### REFERENCES

[1]. Bondioli L et al. PLGA nanoparticles surface decorated with the sialic acid, N-acetylneuraminic acid. Biomaterials. 2010 Apr;31(12):3395-403.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA