



N-Acetylneuraminic acid Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: N-Acetylneuraminic acid

Catalog No.: CFN90045

Cas No.: 131-48-6

Purity: >=98%

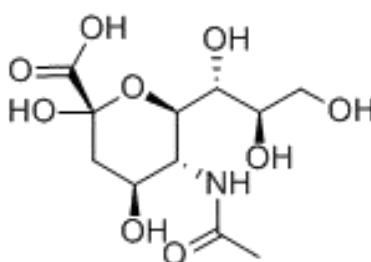
M.F: C₁₁H₁₉NO₉

M.W: 309.27

Physical Description: White powder

Synonyms: 5-(Acetylamino)-3,5-dideoxy-d-glycero-d-galacto-2-nonulosonicaci;

Galactononulosonic acid;Lactaminic acid.



[Intended Use]

1. Reference standards;
2. Pharmacological research;
3. Synthetic precursor compounds;
4. Intermediates & Fine Chemicals;
5. Others.

[Source]

From *cell membrane*.

[Biological Activity or Inhibitors]

Synthesis of pyrrolidine analogues of N - acetylneuraminic acid could as potential sialidase inhibitors.^[1]

N-Acetylneuraminic acid-containing substances has growth-promoting effects on bifidobacteria. ^[2]

A number of N-acetylneuraminic acid-based compounds as potential rotavirus inhibitors.^[3]

[Solvent]

Pyridine, Methanol, Ethanol, etc.

[HPLC Method]^[4]

Mobile phase: 0.1 M Sodium phosphate buffer (pH 2.0)-Methanol =75:25 ;

Flow rate: 1.0 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 205 nm.

[Storage]

2-8°C, Protected from air and light, refrigerate or freeze.

[References]

[1] Czollner L, Kuszmann J, Vasella A. *Helv.Chim. Acta*, 2004, 73(5):1338-58.

[2] Idota T, Kawakami H, Nakajima I. *Biosci. Biotech. Biochem.* 1994, 58(9):1720-2.

[3] Kiefel M J, Beisner B, Bennett S, *et al. J. Med. Chem.*, 1996, 39(6):1314-20.

[4] Kou H, Felice C D, Watanabe T, *et al. J. Chromatogr. A*, 1993, 620(1):25-31.

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