

Product Name: P-3F_{AX}-Neu5Ac

Catalog No.: 5760

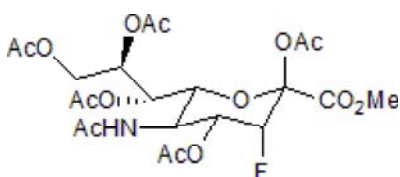
Batch No.: 3

CAS Number: 117405-58-0

IUPAC Name: 5-(acetylamino)-3,5-dideoxy-3-fluoro-D-*erythro*- α -L-manno-2-nonulopyranosonic acid methyl ester
2,4,7,8,9-pentaacetate

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₂H₃₀FNO₁₄
Batch Molecular Weight: 551.47
Physical Appearance: White solid
Solubility: DMSO to 100 mM
ethanol to 50 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.7% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	47.92	5.48	2.54
Found	47.92	5.48	2.45

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Description:

P-3F_{AX}-Neu5Ac is a cell-permeable sialic acid analog. Deacetylation occurs intracellularly giving rise to a sialyltransferase inhibitor. Abolishes expression of SLe^x expression on HL-60 cells and reduces E-selectin and P-selectin binding. Prevents metastasis formation in a mouse lung metastasis model.

Physical and Chemical Properties:

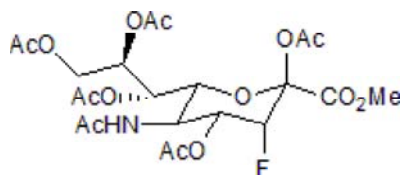
Batch Molecular Formula: C₂₂H₃₀FNO₁₄.

Batch Molecular Weight: 551.47

Physical Appearance: White solid

Minimum Purity: ≥97%

Batch Molecular Structure:



References:

Büll et al (2015) Targeted delivery of a sialic acid-blocking glycomimetic to cancer cells inhibits metastatic spread. *ACS Nano*. **9** 733. PMID: 25575241.

Rillahan et al (2012) Global metabolic inhibitors of sialyl- and fucosyltransferases remodel the glycome. *Nat.Chem.Biol*. **8** 661. PMID: 22683610.

Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 100 mM
ethanol to 50 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

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