bio-techne
TOCRIS

Print Date: Dec 10th 2025

Certificate of Analysis

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Product Name: **P-3F$_{AX}$-Neu5Ac** **Catalog No.: 5760** **Batch No.: 4**

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: $C_{22}H_{30}FNO_{14}.¼H_2O$

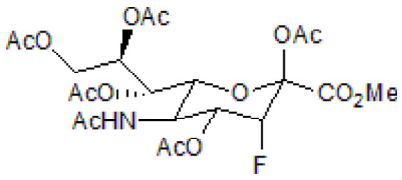
Batch Molecular Weight: 560.48

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 99.1% purity

^{1}H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	47.53	5.53	2.52
Found	46.71	5.37	2.44

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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:

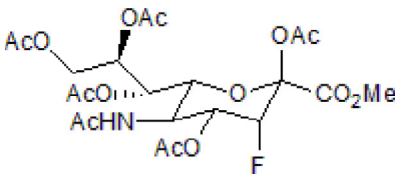
Batch Molecular Formula: $C_{22}H_{30}FNO_{14}.¼H_2O$

Batch Molecular Weight: 560.48

Physical Appearance: White solid

Minimum Purity: ≥97%

Batch Molecular Structure:



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. *Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

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.

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.