



CERTIFICATE OF ANALYSIS

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1. Identification

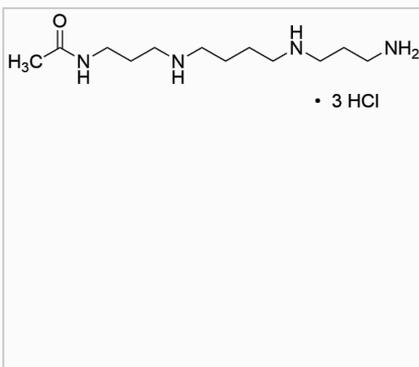
Catalogue Number: A188005

CAS Number: 77928-70-2

Product: N1-Acetylspermine Trihydrochloride

Synonym: N-[3-[[4-[(3-aminopropyl)amino]butyl]amino]propyl]acetamide Trihydrochloride; N-[3-[[4-[(3-aminopropyl)amino]butyl]amino]propyl]acetamide Hydrochloride (1:3)

Structure:



Molecular Formula:

C₁₂H₃₁Cl₃N₄O

Molecular weight:

353.76

Source of Product:

Synthetic

Solubility:

DMSO (Slightly), Methanol (Slightly), Water (Slightly)

Lot Number: 1-TKN-147-2

Purity: 98%

Shipping Condition: This Product Is Stable To Be Shipped At Room Temperature

Storage Condition: -20°C

2. Warning

Warning 1:

Warning 2:

Warning 3:

3. Analytical Information

Tests:	Specifications:	Results:
Elemental Analysis	Conforms	%C: 40.43, %H: 9.08, %N: 15.89
Appearance	White to Off-White Solid	White Solid
NMR	Conforms to Structure	Conforms
MS	Conforms to Structure	Conforms
HPLC Purity	Report Result	96.89% (ELSD)

Additional Information: N/A

Purity is based on the analytical results of the tests performed. NMR and Elemental Analysis (if available) may have an accuracy of ± 2%. Isotopic purity is based on mass distribution observed. The contents of the specifications are subject to change without advance notice, and the specification values displayed here are the most up to date values.

4. Signatures

Reviewed By	Reviewed By	C of A Approved By	Test Date	Retest Date
Evan Burns	Toni Rantanen	Chanell Chu	9/6/2022	9/4/2026

Evan Burns