



CERTIFICATE OF ANALYSIS

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1. Identification

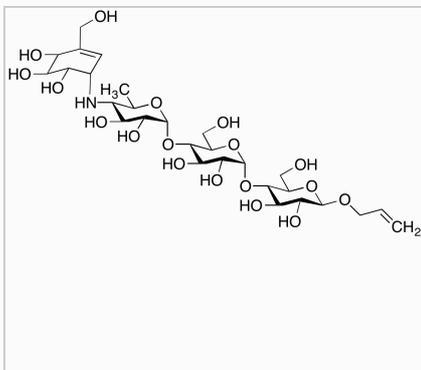
Catalogue Number: A123498

CAS Number: NA

Product: Acarbose O-Allyl Ether

Synonym: (1S,2S,3S,6S)-6-(((2R,3S,4S,5R,6R)-6-(((2R,3S,4R,5R,6R)-6-(((2R,3S,4R,5R,6R)-6-(Allyloxy)-4,5-dihydroxy-2-(hydroxymethyl)tetrahydro-2H-pyran-3-yl)oxy)-4,5-dihydroxy-2-(hydroxymethyl)tetrahydro-2H-pyran-3-yl)oxy)-4,5-dihydroxy-2-methyltetrahydro-2H-pyran-3-yl)amino)-4-(hydroxymethyl)cyclohex-4-ene-1,2,3-triol

Structure:



Molecular Formula:

$C_{28}H_{47}NO_{18}$

Molecular weight:

685.67

Source of Product:

Synthetic

Solubility:

Methanol (Slightly), Water (Slightly)

Lot Number: 13-APD-74-1

Purity: 95%

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

Storage Condition: -20°C, Hygroscopic

2. Warning

Warning 1:

Warning 2:

Warning 3:

3. Analytical Information

Tests:	Specifications:	Results:
Appearance	White to Off-White Solid	Off-White Solid
NMR	Conforms to Structure	Conforms
Elemental Analysis	Conforms	%C: 47.95, %H: 6.84, %N: 2.10
MS	Conforms to Structure	Conforms
Specific Rotation	Report Result	+136.3° (c = 0.5, Water; 4 Hours)
HPLC Purity	Report Result	93.12% (205 nm)

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 $\pm 2\%$. 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

Evan Burns

Evan Burns

Reviewed By

Toni Rantanen



**C of A Approved
By**

Chanell Chu



Test Date

11/15/2021

Retest Date

11/13/2025