

Certificate of Analysis

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Product Name: ArMan

Catalog No.: 8869

Batch No.: 1

IUPAC Name: *N*-(4-(((2*R*,3*S*,4*S*,5*S*,6*R*)-3,4,5-Trihydroxy-6-(hydroxymethyl)tetrahydro-2*H*-pyran-2-yl)oxy)phenethyl)pent-4-ynamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₉H₂₅NO₇·1/4H₂O

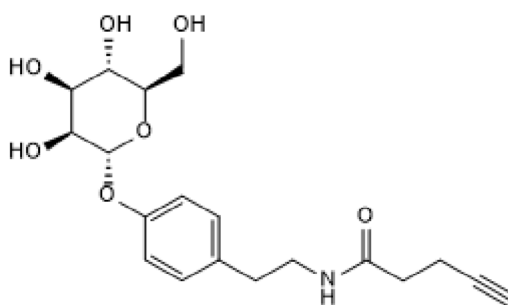
Batch Molecular Weight: 383.91

Physical Appearance: White solid

Solubility: DMSO to 100 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.0% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon Hydrogen Nitrogen		
Theoretical	59.44	6.7	3.65
Found	58.73	6.69	3.53

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

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Description:

ArMan is an aryl mannoside targeting ligand that can be functionalised to the surface of virus like particles (VLPs) via click chemistry. Functionalised particles can be used to target DC-SIGN (dendritic cell-specific intercellular adhesion molecule-3 grabbing nonintegrin) dendritic cells to promote selective coengagement of DC-SIGN and TLR7, resulting in a Th1-type immune response. In vivo, immunization with VLP-ArMan-Oval/II significantly inhibits tumor growth in a murine melanoma model.

Physical and Chemical Properties:

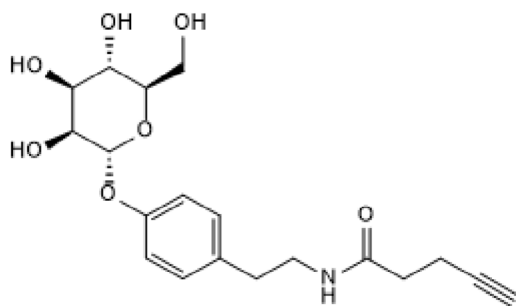
Batch Molecular Formula: C₁₉H₂₅NO₇·1/4H₂O

Batch Molecular Weight: 383.91

Physical Appearance: White solid

Minimum Purity: ≥98%

Batch Molecular Structure:



References:

Lensch et al (2024) Carbohydrate-lectin interactions reprogram dendritic cells to promote type 1 anti-tumor immunity. *ACS Nano* **18** 26770. PMID: 39283240.

Alam et al (2021) Glycan-modified virus-like particles evoke T helper type 1-like immune responses. *ACS Nano* **15** 309. PMID: 32790346.

Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 100 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.

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