



CERTIFICATE OF ANALYSIS

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1. Identification

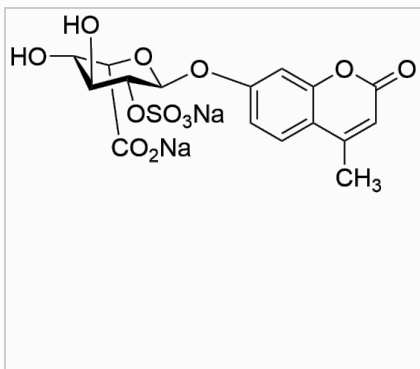
Catalogue Number: M334715

CAS Number: 2181774-46-7

Product: 4-Methylumbelliferyl α-L-Idopyranosiduronic Acid 2-Sulfate Disodium Salt

Synonym: 4-Methylumbelliferyl β-L-Iduronic Acid-2-sulfate Sodium Salt; 4-Methyl-2-oxo-2H-1-benzopyran-7-yl β-L-Idopyranosiduronic Acid 2-(Hydrogen Sulfate);

Structure:



Molecular Formula:

C₁₆H₁₄Na₂O₁₂S

Molecular weight:

476.32

Source of Product:

Synthetic

Solubility:

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

Lot Number: 2023-IMA-003

Purity: 97%

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:
Appearance	White to Off-White Solid	White to Off-White Solid
NMR	Conforms to Structure	Conforms
MS	Conforms to Structure	Conforms
Elemental Analysis	Conforms	%C: 38.82, %H: 3.12
Sodium Content	Report Result	9.03% by Ion Chromatography
HPLC Purity	>95%	97.03% (205 nm)
Specific Rotation	Report Result	-53.6° (c = 0.1, Water)

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
Nicole Yip	Toni Rantanen	Chanell Chu	3/23/2023	3/21/2027