



## CERTIFICATE OF ANALYSIS

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### 1. Identification

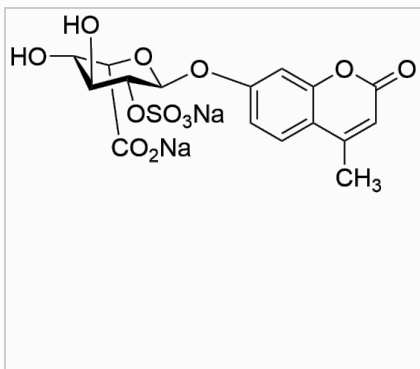
**Catalogue Number:** M334715

**CAS Number:** 2181774-46-7

**Product:** 4-Methylumbelliferyl  $\alpha$ -L-Idopyranosiduronic Acid 2-Sulfate Disodium Salt

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

**Structure:**



**Molecular Formula:**

C<sub>16</sub>H<sub>14</sub>Na<sub>2</sub>O<sub>12</sub>S

**Molecular weight:**

476.32

**Source of Product:**

Synthetic

**Solubility:**

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

**Lot Number:** 9-URV-124-1

**Purity:** 96%

**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
Elemental Analysis	Conforms	%C: 37.11, %H: 3.24
HPLC Purity	>95%	99.78% (220 nm)
MS	Conforms to Structure	Conforms
Sodium Content	Report Result	8.78% by Ion Chromatography
Water Content	Report Result	~5.2% based on Elemental Analysis

**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	Reviewed By	C of A Approved By	Test Date	Retest Date
Swathi Reddy	Toni Rantanen	Chanell Chu	3/22/2022	3/20/2026