



CERTIFICATE OF ANALYSIS

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1. Identification

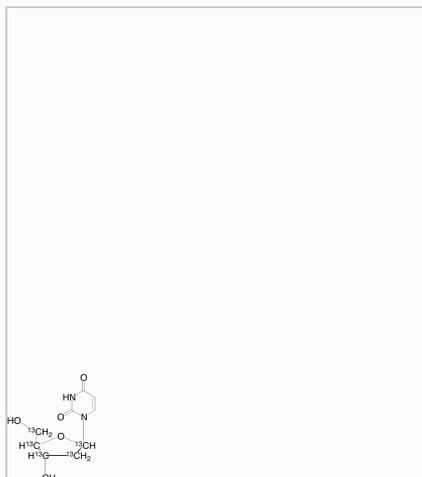
Catalogue Number: D288032

CAS Number: 478510-94-0

Product: 2'-Deoxyuridine-1',2',3',4',5'-¹³C₅

Synonym: 1-(2-Deoxy-β-D-erythro-pentofuranosyl)uracil-1',2',3',4',5'-¹³C₅; 2'-Desoxyuridine; Deoxyribose Uracil-1',2',3',4',5'-¹³C₅; Deoxyuridine-1',2',3',4',5'-¹³C₅; NSC 23615-1',2',3',4',5'-¹³C₅; Uracil Deoxyriboside-1',2',3',4',5'-¹³C₅;

Structure:



Molecular Formula:

C₄¹³C₅H₁₂N₂O₅

Molecular weight:

233.17

Source of Product:

N/A

Solubility:

DMSO (Slightly), Methanol (Very Slightly)

Lot Number: 2023-JPO-435

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:
Appearance	White to Off-White Solid	White to Off-White Solid
NMR	Conforms to Structure	Conforms
C NMR	Conforms to Structure	Conforms
Elemental Analysis	Conforms	%C: 46.42, %H: 5.17, %N: 11.93
HPLC Purity	Report Result	99.56% (265 nm)
MS	Conforms to Structure	Conforms
Isotopic Purity	>95%	98.6%
Specific Rotation	Report Result	+31.9° (c = 0.1, Water)

Additional Information:

Normalized Intensity: ¹³C₀ = 0.20%, ¹³C₁ = 0.27%, ¹³C₂ = 0.22%, ¹³C₃ = 0.09%, ¹³C₄ = 4.31%, ¹³C₅ = 94.91%

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
Henry Tieu	Toni Rantanen	Chanell Chu	10/31/2023	10/29/2027
				