



CERTIFICATE OF ANALYSIS

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1. Identification

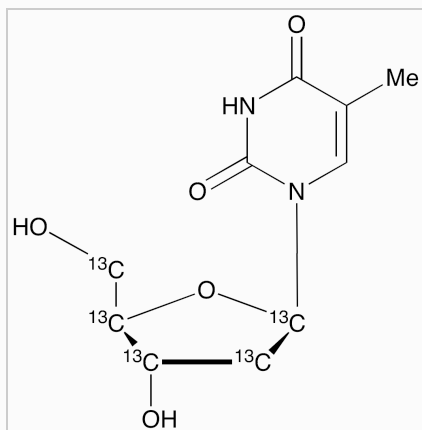
Catalogue Number: T411997

CAS Number: 156968-81-9

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

Synonym: 1-(2-Deoxy-β-D-erythro-pentofuranosyl)-5-methyl-2,4(1H,3H)-pyrimidinedione-1',2',3',4',5'-13C5; 1-(2-deoxy-β-D-erythro-pentofuranosyl)-5-methyl-2,4(1H,3H)-Pyrimidinedione-1',2',3',4',5'-13C5; 2'-Deoxythymidine-3'-13C; 5-Methyl-2'-deoxyuridine-1',2',3',4',5'-13C5; 5-Methyldeoxyuridine-1',2',3',4',5'-13C5; DThyd-1',2',3',4',5'-13C5; Deoxyribothymidine-1',2',3',4',5'-13C5; Deoxythymidine-1',2',3',4',5'-13C5; NSC 21548-1',2',3',4',5'-13C5; Thymidin-1',2',3',4',5'-13C5; Thymine 2-Desoxyriboside-1',2'

Structure:



Molecular Formula:

$^{13}\text{C}_5\text{C}_5\text{H}_{14}\text{N}_2\text{O}_5$

Molecular weight:

247.19

Source of Product:

N/A

Solubility:

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

Lot Number: 2-PYL-24-1

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 Solid
NMR	Conforms to Structure	Conforms
C NMR	Conforms to Structure	Conforms
Elemental Analysis	Conforms	%C: 48.02, %H: 5.52, %N: 11.11
MS	Conforms to Structure	Conforms
Isotopic Purity	>95%	96.7% (d0 = 0.32%)
HPLC Purity	Report Result	98.01% (270 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 ± 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

Nicole Yip



Reviewed By

Toni Rantanen



**C of A Approved
By**

Chanell Chu



Test Date

7/9/2021

Retest Date

7/7/2025