

**1. Identification**Catalogue Number

X499952

Lot Number

2-DPL-162-3

Product Name

Xanthine-13C15N2

Synonyms

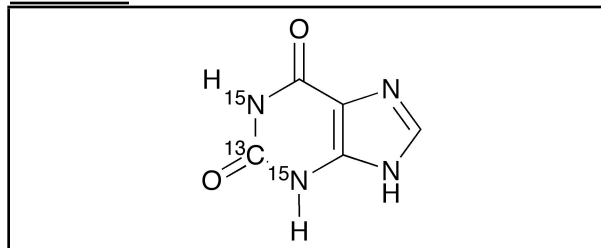
3,9-Dihydro-1H-purine-2,6-dione-13C15N2; 1H,3H,7H-Xanthine-13C15N2; 1H,3H,9H-Xanthine-13C15N2; 1H-Purine-2,6-diol; 2,6-Dioxo-1,2,3,6-tetrahydropurine-13C15N2; 2,6-Dioxopurine-13C15N2; 3,9-Dihydro-1H-purine-2,6-dione-13C15N2; 3,9-Dihydropurine-2,6-dione-13C15N2; 9H-Purine-2,6(1H,3H)-dione-13C15N2; Isoxanthine-13C15N2; NSC 14664-13C15N2; Pseudoxanthine

CAS Number

1262670-81-4

Solubility

DMSO (Slightly)

StructureShipping Condition

This Product Is Stable To Be Shipped At Room Temperature

Molecular FormulaC₄¹³CH₄N₂¹⁵N₂O₂Source of Product

Synthetic

Long Term Storage Conditions

4°C

Molecular Weight

155.09

Purity

95%

2. Warnings

Not Determined

3. Analytical Information

<u>Tests</u>	<u>Specifications</u>	<u>Results</u>
Appearance	Pale Yellow to Light Beige Solid	Pale Yellow to Pale Beige Solid
NMR	Conforms to Structure	Conforms
C NMR	Conforms to Structure	Conforms
N NMR	Conforms to Structure	Conforms
Elemental Analysis	Conforms	%C: 35.70, %H: 2.46, %N: 32.04
HPLC Purity	Report Result	93.97% (270 nm)
MS	Conforms to Structure	Conforms
Isotopic Purity	>95%	99.2%

Additional Information

Normalized Intensity: d₀ = 0.17%, d₁ = 0.00%, d₂ = 1.94%, d₃ = 97.89%.

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. SignaturesReviewed by

Henry Tieu

Product Quality Specialist

Reviewed by

Toni Rantanen

Manager, Quality Assurance

C of A Approved by

Chanell Chu

Jr. Quality Assurance

Test Date

5/1/2023

Retest Date

4/29/2027