

1. Identification

Catalogue Number

N390007

Lot Number

21-MGG-70-2

Product Name

D-Neopterin-13C5

Synonyms

2-Amino-6-[(1S,2R)-1,2,3-trihydroxypropyl]-4(3H)-pteridinone-13C5; Neopterin-13C5; 2-Amino-4-hydroxy-6-(1,2,3-trihydroxypropyl)pteridine-13C5; 2-Amino-6-[(1S,2R)-1,2,3-trihydroxypropyl]-4(8H)-pteridone-13C5; 6-D-erythro-Neopterin-13C5; D-(+)-Neopterin-13C5; D-erythro-Neopterin-13C5;

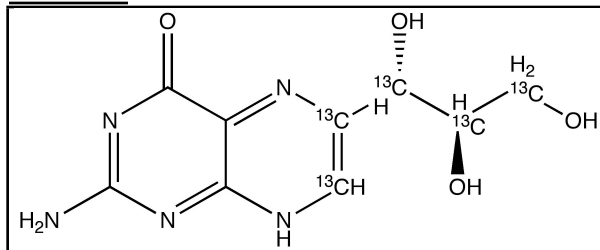
CAS Number

1217632-04-6

Solubility

Aqueous Acid (Slightly, Heated, Sonicated), Methanol (Slightly, Heated), Water (Slightly)

Structure



Molecular Formula

C₄¹³C₅H₁₁N₅O₄

Source of Product

Synthetic

Shipping Condition

This Product Is Stable To Be Shipped At Room Temperature

Molecular Weight

258.18

Purity

>95%

Long Term Storage Conditions

-20°C, Hygroscopic

2. Warnings

Hygroscopic

3. Analytical Information

Tests	Specifications	Results
Appearance	Pale Beige to Brown Solid	Pale Beige to Light Beige Solid
NMR	Conforms to Structure	Conforms
C NMR	Conforms to Structure	Conforms
Elemental Analysis	Conforms	%C: 40.99, %H: 4.32, %N: 27.06
HPLC Purity	>95%	97.53% (275 nm)
MS	Conforms to Structure	Conforms
Isotopic Purity	>95%	98.4%
Specific Rotation	Report Result	+43.0° (c = 0.2, 1N HCl)

Additional Information

Normalized Intensity: ¹³C₀ = 0.09%, ¹³C₁ = 0.51%, ¹³C₂ = 0.04%, ¹³C₃ = 0.47%, ¹³C₄ = 4.63%, ¹³C₅ = 94.27%

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
Evan Burns			10/3/2022	10/1/2026
Evan Burns	Toni Rantanen	Chanell Chu		
Product Quality Specialist	Manager, Quality Assurance	Jr. Quality Assurance		