

1. Identification

Catalogue Number

F371502

Lot Number

17-MRS-187-2

Product Name

Flavine Adenine Dinucleotide-¹³C₅ Ammonium Salt (>90%)

Synonyms

Riboflavin 5'-(Trihydrogen Diphosphate) P'5'-Ester with Adenosine-¹³C₅ Ammonium Salt; Adenine-flavine Dinucleotide-¹³C₅ Disodium; Adenine-riboflavin-¹³C₅ Dinucleotide Ammonium Salt; Adenine-riboflavin-¹³C₅ Dinucleotide Ammonium Salt; FAD-¹³C₅ Ammonium Salt; Fademin-¹³C₅ Ammonium

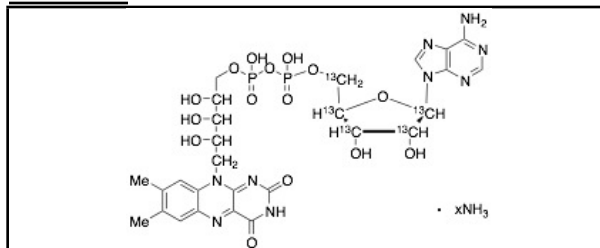
CAS Number

N/A

Solubility

Water (Slightly)

Structure



Shipping Condition

This Product Is Stable To Be Shipped At Room Temperature

Molecular Formula

C₂₂¹³C₅H₃₃N₉O₁₅P₂ • xNH₃

Source of Product

Synthetic

Long Term Storage Conditions

-20°C, Hygroscopic

Molecular Weight

790.51 + x(17.03)

Purity

>90%

Calibri

C₂₂¹³C₅H₃₃N₉

C₂₂¹³C₅H₃₃N₉

Courier

C₂₂¹³C₅H₃₃N₉

C₂₂¹³C₅H₃₃N₉

Arial MT

C₂₂¹³C₅H₃₃

C₂₂¹³C₅H₃₃

Arial

C₂₂¹³C₅H₃₃

C₂₂¹³C₅H₃₃

2. Warnings

Hygroscopic

3. Analytical Information

Tests	Specifications	Results
Appearance	Yellow to Dark Yellow Solid	Yellow to Dark Yellow Solid
NMR	Conforms to Structure	Conforms
C NMR	Conforms to Structure	Conforms
P NMR	Conforms to Structure	Conforms
Elemental Analysis	Conforms	%C: 37.77, %H: 5.15, %N: 17.37
HPLC Purity	Report Result	90.08% (265 nm)
MS	Conforms to Structure	Conforms
Isotopic Purity	>95%	98.6%
Water Content	Report Result	~6.3% based on Elemental Analysis
Ammonium Content	Report Result	2.81% by Ion Chromatography
Specific Rotation	Report Result	-42.0° (c = 0.1, Water)

Additional Information

Normalized Intensity: d₀ = 0.08%, d₁ = 0.33%, d₂ = 0.21%, d₃ = 0.24%, d₄ = 4.08%, d₅ = 95.06%

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
			4/4/2022	4/2/2026
Henry Tieu	Toni Rantanen	Chanell Chu		
Product Quality Specialist	Manager, Quality Assurance	Jr. Quality Assurance		