



CERTIFICATE OF ANALYSIS

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1. Identification

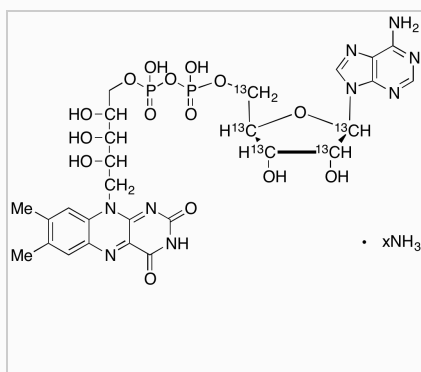
Catalogue Number: F371502

CAS Number: NA

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

Synonym: Riboflavin 5'-(Trihydrogen Diphosphate) P'5'-Ester with Adenosine-13C5 Ammonium Salt; Adenine-flavine Dinucleotide-13C5 Disodium; Adenine-riboflavin-13C5 Dinucleotide Ammonium Salt; Adenine-riboflavine-13C5 Dinucleotide Ammonium Salt; FAD-13C5 Ammonium Salt; Fademine-13C5 Ammonium Salt; Flavinat-13C5 Ammonium Salt; Flavine Adenosine Diphosphate-13C5 Ammonium Salt; Flavitan-13C5 Ammonium Salt; NSC 112207; Riboflavin-adenine Dinucleotide-13C5 Dinucleotide Ammonium Salt

Structure:



Molecular Formula:

$C_{22}^{13}C_5H_{33}N_9O_{15}P_2 \cdot xNH_3$

Molecular weight:

790.51 + x(17.03)

Source of Product:

Synthetic

Solubility:

Methanol (Slightly, Heated),
Water (Slightly)

Lot Number: 8-VCP-180-1

Purity: >90%

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	Yellow to Dark Yellow Solid	Orange Solid
NMR	Conforms to Structure	Conforms
Elemental Analysis	Conforms	%C: 35.80, %H: 4.16, %N: 16.04
MS	Conforms to Structure	Conforms
Isotopic Purity	>95%	99.5% (d0 = 0.20%)
C NMR	Conforms to Structure	Conforms
P NMR	Conforms to Structure	Conforms
Water Content	Report Result	~4.4% based on Elemental Analysis

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 $\pm 2\%$. 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	Toni Rantanen	Chanell Chu	2/4/2022	2/2/2026
				