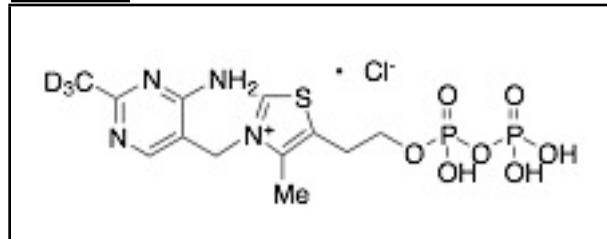


CERTIFICATE OF ANALYSIS**1. Identification**

Catalogue Number **Lot Number**
T344072 36-JHY-105-3

Product Name
Thiamine-d3 Pyrophosphate Chloride (d3-Major)

StructureSynonyms

3-[(4-Amino-2-methyl-5-pyrimidinyl)methyl]-4-methyl-5-(4,6,6-trihydroxy-4,6-dioxa-3,5-dioxa-4,6-diphosphahex-1-yl)thiazolium-d3 Chloride; Thiamine-d3 Trihydrogen Pyrophosphate Chloride; 3-[(4-Amino-2-methyl-5-pyrimidinyl)methyl]-4-methyl-5-(4,6,6-trihydroxy-3,5-dioxa-4,6-diphosphahex-1-yl)thiazolium-d3 Chloride P,P'-Dioxide; 3-[(4-amino-2-methyl-5-pyrimidinyl)methyl]-4-methyl-5-(4,6,6-

CAS Number

2483831-79-2 Solubility
Methanol (Slightly), Water (Slightly)

Shipping Condition

This Product Is Stable To Be Shipped At Room Temperature

Molecular Formula

C₁₂H₁₆D₃ClN₄O₇P₂S

Source of Product

Synthetic

Long Term Storage Conditions

-20°C, Inert atmosphere

Molecular Weight

463.79

Purity

>95%

2. Warnings

Not Determined

3. Analytical Information

<u>Tests</u>	<u>Specifications</u>	<u>Results</u>
Appearance	White to Pale Yellow Solid	White to Off-White Solid
NMR	Conforms to Structure	Conforms
P NMR	Conforms to Structure	Conforms
Elemental Analysis	Conforms	%C: 30.05, %H: 4.21, %N: 11.53
HPLC Purity	>95%	97.39% (235 nm)
MS	Conforms to Structure	Conforms
Isotopic Purity	>95%	91.8%
Chloride Content	Report Result	7.3%

Additional Information

Normalized Intensity: d₀ = 0.10%, d₁ = 1.83%, d₂ = 20.54%, d₃ = 77.53%

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

<u>Reviewed by</u>	<u>Reviewed by</u>	<u>C of A Approved by</u>	<u>Test Date</u>	<u>Retest Date</u>
R. Lewis swathi reddy Product Quality Specialist	 Toni Rantanen	 Chanell Chu	11/7/2023	11/5/2027
		Quality Assurance Associate		