



CERTIFICATE OF ANALYSIS

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1. Identification

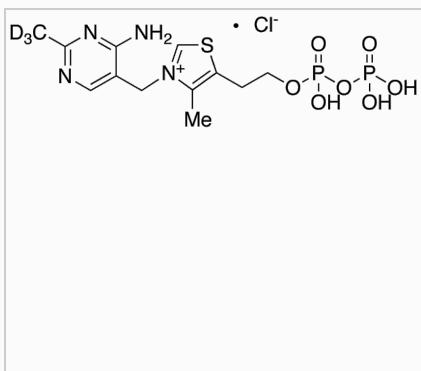
Catalogue Number: T344072

CAS Number: 2483831-79-2

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

Synonym: 3-[(4-Amino-2-methyl-5-pyrimidinyl)methyl]-4-methyl-5-(4,6,6-trihydroxy-4,6-dioxido-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-trihydroxy-4,6-dioxido-3,5-dioxa-4,6-diphosphahex-1-yl)thiazolium-d3 Chloride; B-Neurox-d3; Berolase-d3; Biosy

Structure:



Molecular Formula:

C₁₂H₁₆D₃CIN₄O₇P₂S

Molecular weight:

463.79

Source of Product:

Synthetic

Solubility:

Methanol (Slightly), Water (Slightly)

Lot Number: 25-JHY-113-1

Purity: 95%

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 | White to Pale Yellow Solid | White to Off-White Solid |
| NMR | Conforms to Structure | Conforms |
| P NMR | Conforms to Structure | Conforms |
| MS | Conforms to Structure | Conforms |
| Elemental Analysis | Conforms | %C: 26.31, %H: 4.46, %N: 11.28 |
| HPLC Purity | Report Result | 95.29% (235 nm) |
| C NMR | Conforms to Structure | Conforms |

Additional Information:

Normalized Intensity: d0 = 0.91%, d1 = 4.01%, d2 = 26.39%, d3 = 68.69%

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 |
|--------------------|--------------------|---------------------------|------------------|--------------------|
| Neha Khanna | Toni Rantanen | Chanell Chu | 5/18/2023 | 5/16/2027 |

