

## 1. Identification

### Catalogue Number

T344072

### Lot Number

36-JHY-105-3

### Product Name

Thiamine-d3 Pyrophosphate Chloride (d3-Major)

### Synonyms

3-[(4-Amino-2-methyl-5-pyrimidinyl)methyl]-4-methyl-5-(4,6,6-trihydroxy-4,6-dioxido-3,5-dioxo-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-dioxo-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-

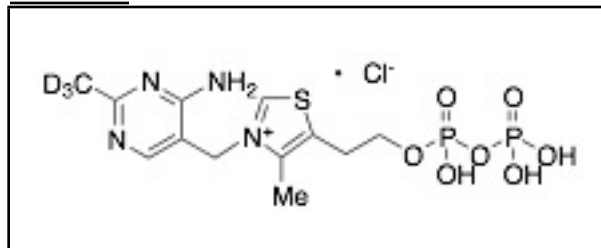
### CAS Number

2483831-79-2

### Solubility

Methanol (Slightly), Water (Slightly)

### Structure



### Shipping Condition

This Product Is Stable To Be Shipped At Room Temperature

### Molecular Formula

C<sub>12</sub>H<sub>16</sub>D<sub>3</sub>ClN<sub>4</sub>O<sub>7</sub>P<sub>2</sub>S

### 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

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
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: d<sub>0</sub> = 0.10%, d<sub>1</sub> = 1.83%, d<sub>2</sub> = 20.54%, d<sub>3</sub> = 77.53%

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
			11/7/2023	11/5/2027
swathi reddy	Toni Rantanen	Chanell Chu		
Product Quality Specialist	Manager, Quality Assurance	Quality Assurance Associate		