

## 1. Identification

Catalogue Number

E600003

Lot Number

2023-HAB-104

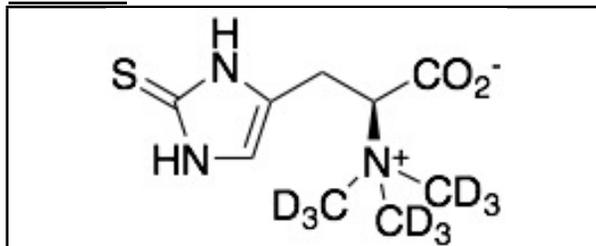
Product Name

L-(+)-Ergothioneine-d9

Synonyms

(αS)-α-Carboxy-2,3-dihydro-N,N,N-tri(methyl-d3)-2-thioxo-1H-imidazole-4-ethanaminium Inner Salt; 2-Mercaptohistidine Betaine-d9; NSC 7175-d9; 2-Mercapto-N,N-dimethylhistidine Methyl Ester Betaine-d9; 2-Mercapto-histidine-d9; Sympectothion-d9; Thiasine-d9; Thioneine-d9; Thiotane-d9;

Structure



CAS Number

N/A

Solubility

Methanol (Slightly), Water (Slightly)

Shipping Condition

This Product Is Stable To Be Shipped At Room Temperature

Molecular Formula

C<sub>9</sub>H<sub>6</sub>D<sub>9</sub>N<sub>3</sub>O<sub>2</sub>S

Source of Product

Synthetic

Long Term Storage Conditions

-20°C, Hygroscopic

Molecular Weight

238.35

Purity

>95%

## 2. Warnings

Hygroscopic

## 3. Analytical Information

<u>Tests</u>	<u>Specifications</u>	<u>Results</u>
Appearance	White to Off-White Solid	White Solid
NMR	Conforms to Structure	Conforms
Elemental Analysis	Conforms	%C: 44.00, %H: 6.37, %N: 17.20
HPLC Purity	>95%	99.80% (260 nm)
MS	Conforms to Structure	Conforms
Isotopic Purity	>95%	97.0%

Additional Information

Normalized Intensity: d<sub>0</sub> = 0.16%, d<sub>1</sub> = 0.09%, d<sub>2</sub> = 0.00%, d<sub>3</sub> = 0.00%, d<sub>4</sub> = 0.00%, d<sub>5</sub> = 0.00%, d<sub>6</sub> = 0.00%, d<sub>7</sub> = 0.51%, d<sub>8</sub> = 23.75%, d<sub>9</sub> = 75.49%

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

<u>Reviewed by</u>	<u>Reviewed by</u>	<u>C of A Approved by</u>	<u>Test Date</u>	<u>Retest Date</u>
R. Swathi			12/1/2023	11/29/2027
swathi reddy	Toni Rantanen	Chanell Chu		
Product Quality Specialist	Manager, Quality Assurance	Quality Assurance Associate		