

## 1. Identification

Catalogue Number

L468752

Lot Number

11-AKS-10-1

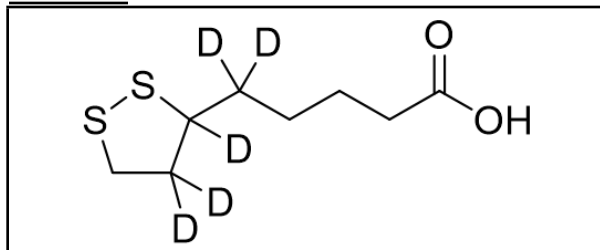
Product Name

rac  $\alpha$ -Lipoic Acid-D5

Synonyms

(+/-)-1,2-Dithiolane-3-pentanoic Acid-D5; (+/-)-1,2-Dithiolane-3-valeric Acid-D5; (+/-)-Thioctic Acid-D5; (RS)- $\alpha$ -Lipoic Acid-D5; DL-Thioctic Acid-D5; Liposan-D5; Lipothion-D5; NSC 628502-D5; NSC 90788-D5; Protogen A-D5; Thioctsan-D5; Tioctacid-D5;

Structure



CAS Number

1189471-66-6

Solubility

Chloroform (Slightly)

Shipping Condition

This Product Is Stable To Be Shipped At Room Temperature

Molecular Formula

C<sub>8</sub>H<sub>9</sub>D<sub>5</sub>O<sub>2</sub>S<sub>2</sub>

Source of Product

Synthetic

Long Term Storage Conditions

-20°C, Inert atmosphere, Light sensitive

Molecular Weight

211.35

Purity

93%

## 2. Warnings

Light Sensitive

## 3. Analytical Information

Tests

Appearance

Specifications

Pale Yellow to Light Yellow Solid

Results

Light Yellow Solid

NMR

Conforms to Structure

Conforms

HPLC Purity

Report Result

93.09% (200 nm)

MS

Conforms to Structure

Conforms

Isotopic Purity

>95%

97.9%

Solubility

Report Result

Chloroform (Slightly)

Additional Information

Normalized Intensity: d<sub>0</sub> = 0.08%, d<sub>1</sub> = 0.36%, d<sub>2</sub> = 0.59%, d<sub>3</sub> = 0.24%, d<sub>4</sub> = 6.58%, d<sub>5</sub> = 92.15%

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

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Farnaz Mahmoudi

Quality Assurance Associate

Reviewed by

*Toni Rantanen*

Toni Rantanen

Manager, Quality Assurance

C of A Approved by

*Christina Gouliaras*

Christina Gouliaras

Quality Assurance Associate

Test Date

8/22/2023

Retest Date

8/20/2030