

1. Identification

Catalogue Number

D289982

Lot Number

12-WAI-179-1

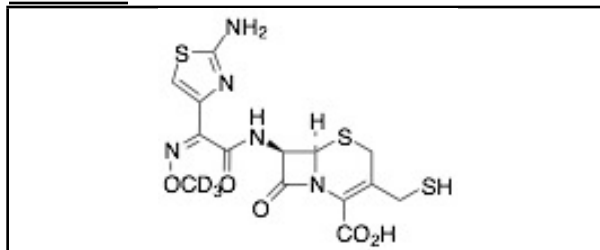
Product Name

Desfuroyl Ceftiofur-d3 (>85%)

Synonyms

(6R,7R)-7-[[[(2Z)-(2-Amino-4-thiazolyl)(methoxyimino-d3)acetyl]amino]-3-(mercaptomethyl)-8-oxo-5-thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic Acid; DFC-d3; Defuroylceftiofur-d3;

Structure



CAS Number

N/A

Solubility

DMSO (Slightly), Methanol (Slightly)

Shipping Condition

This Product Is Stable To Be Shipped With Dry Ice

Molecular Formula

C₁₄H₁₂D₃N₅O₅S₃

Source of Product

Synthetic

Long Term Storage Conditions

-86°C, Hygroscopic

Molecular Weight

432.51

Purity

>85%

2. Warnings

Air Sensitive, Hygroscopic, Temperature sensitive

3. Analytical Information

Tests

Appearance

Specifications

White to Pale Brown Solid

Results

Pale Beige to Pale Brown Solid

NMR

Conforms to Structure

Conforms

Elemental Analysis

Conforms

%C: 38.68, %H: 3.79, %N: 13.25

MS

Conforms to Structure

Conforms

Isotopic Purity

>95%

99.2%

Additional Information

Normalized Intensity: d₀ = 0.21%, d₁ = 0.37%, d₂ = 0.91%, d₃ = 98.51%

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

R. Reddy

Reviewed by

Toni Rantanen

C of A Approved by

Chanell Chu

Test Date

4/16/2025

Retest Date

4/14/2026

Swathi Reddy

Manager, Quality Assurance

Quality Assurance Associate

Product Quality Specialist