



CERTIFICATE OF ANALYSIS

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1. Identification

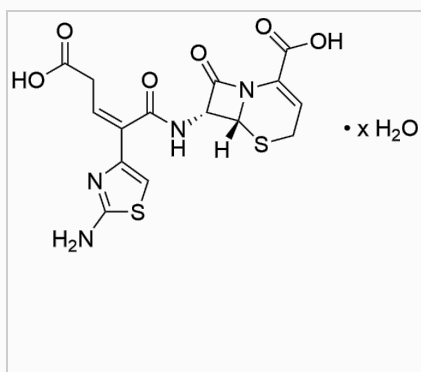
Catalogue Number: C244500

CAS Number: 118081-37-1

Product: Ceftibuten Hydrate

Synonym: [6R-[6 α ,7 β (Z)]]-7-[[2-(2-Amino-4-thiazolyl)-4-carboxy-1-oxo-2-butenyl]amino]-8-oxo-5-thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic Acid Hydrate;

Structure:



Molecular Formula:

$C_{15}H_{14}N_4O_6S_2 \cdot x(H_2O)$

Molecular weight:

410.42 + $x(18.02)$

Source of Product:

N/A

Solubility:

Aqueous Base (Very Slightly),
DMSO (Slightly)

Lot Number: 2023-QIU-322

Purity: 96%

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	Pale Yellow to Light Brown Solid	Pale Brown to Light Brown Solid
NMR	Conforms to Structure	Conforms
Elemental Analysis	Conforms	%C: 38.33, %H: 4.23, %N: 12.15
HPLC Purity	Report Result	97.26% (265 nm)
MS	Conforms to Structure	Conforms
Water Content	Report Result	11.9% by Karl Fischer
Specific Rotation	Report Result	+93.6° (c = 0.1, DMSO)

Additional Information: N/A

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	Reviewed By	C of A Approved By	Test Date	Retest Date
swathi reddy	Toni Rantanen	Christina Gouliaras	9/5/2023	9/3/2027

R. Lewis