



CERTIFICATE OF ANALYSIS

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1. Identification

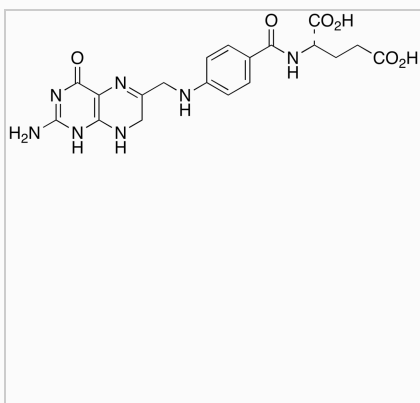
Catalogue Number: D449700

CAS Number: 4033-27-6

Product: Dihydro Folic Acid

Synonym: N-[4-[[[(2-Amino-3,4,7,8-tetrahydro-4-oxo-6-pteridiny)l)methyl]amino]benzoyl]-L-glutamic Acid; N-[p-[[[(2-Amino-7,8-dihydro-4-hydroxy-6-pteridiny)l)methyl]amino]benzoyl]-L- Ggutamic Acid; N-[4-[[[(2-Amino-1,4,7,8-tetrahydro-4-oxo-6-pteridiny)l)methyl]amino]benzoyl]-L-glutamic Acid; 7,8-Dihydro-L-folic Acid; 7,8-Dihydrofolic Acid; Dihydrofolic Acid; NSC 165989;

Structure:



Molecular Formula:

C₁₉H₂₁N₇O₆

Molecular weight:

443.42

Source of Product:

Synthetic

Solubility:

Aqueous Base (Slightly, Heated, Sonicated), Methanol (Very Slightly), Water (Sli

Lot Number: 17-ZCA-83-1

Purity: 95%

Shipping Condition: This Product Is Stable To Be Shipped With Dry Ice, Dry Pack

Storage Condition: -86°C

2. Warning

Warning 1:

Warning 2:

Warning 3:

3. Analytical Information

Tests:	Specifications:	Results:
Appearance	Pale Beige to Grey Solid	Light Beige to Beige Solid
Specific Rotation	Report Result	+12.3° (c = 0.2, 0.1M NaOH)
NMR	Conforms to Structure	Conforms
Elemental Analysis	Conforms	%C: 48.79, %H: 5.02, %N: 20.90
MS	Conforms to Structure	Conforms
HPLC Purity	Report Result	95.05% (225 nm)
Water Content	Report Result	4.7% by Karl Fischer

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 ± 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
Evan Burns	Toni Rantanen	Chanell Chu	11/30/2021	11/28/2025
				