



CERTIFICATE OF ANALYSIS

20 Martin Ross Avenue, North York, ON, M3J 2K8, CANADA
Tel: (416) 665-9696, Fax: (416) 665-4439
Email: orders.trc@lgcgroup.com Website: www.trc-canada.com

1. Identification

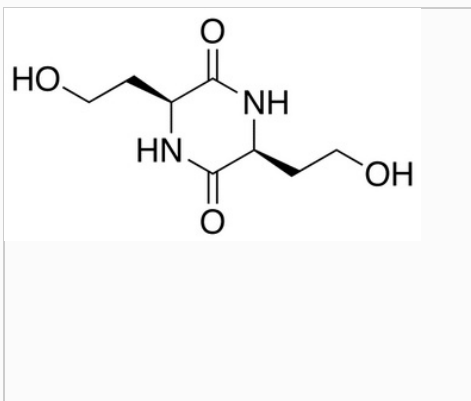
Catalogue Number: B443850

CAS Number: 1333325-24-8

Product: L-3,6-Bis(b-hydroxyethyl)-2,5-diketopiperazine

Synonym:

Structure:



Molecular Formula:

C₈H₁₄N₂O₂

Molecular weight:

202.21

Source of Product:

Synthetic

Solubility:

Aqueous Acid (Slightly),
DMSO (Slightly), Methanol
(Slightly)

Lot Number: 2-SWZ-177-1

Purity: 96%

Shipping Condition: This Product Is Stable To Be Shipped At Room Temperature

Storage Condition: 4°C

2. Warning

Warning 1: Not Determined

Warning 2:

Warning 3:

3. Analytical Information

Tests:	Specifications:	Results:
Appearance	White to Off-White Solid	Off-White Solid
NMR	Conforms to Structure	Conforms
Elemental Analysis	Conforms	%C: 46.74, %H: 6.93, %N: 13.33
MS	Conforms to Structure	Conforms
C NMR	Conforms to Structure	Conforms
Specific Rotation	Report Result	-31.5° (c = 0.5, 1N HCl)
HPLC Purity	Report Result	100%

Additional Information:

TLC Conditions: C18; Methanol = 100%; Visualized with UV, KMnO₄, and Ninhydrin; Single Spot, R_f = 0.70. Elemental Analysis: (Theoretical)
%C: 47.52, %H: 6.98, %N: 13.85

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
Neha Khanna	Eric Beaton	My Nguyen	9/11/2019	9/9/2029