



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

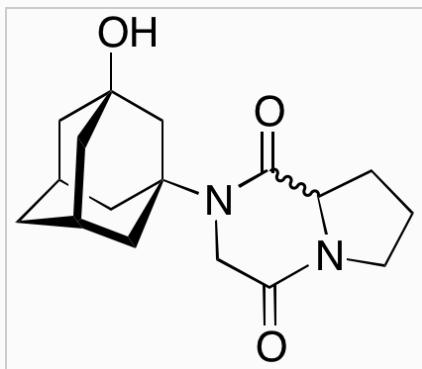
Catalogue Number: V305025

CAS Number: 1789703-36-1

Product: Vildagliptin Lactam

Synonym: Rac-Vildagliptin Impurity F; 2-((1r,3R,5R,7S)-3-Hydroxyadamantan-1-yl)hexahdropyrrolo[1,2-a]pyrazine-1,4-dione;

Structure:



Molecular Formula:

$C_{17}H_{24}N_2O_3$

Molecular weight:

304.38

Source of Product:

Synthetic

Solubility:

Chloroform (Slightly), DMSO (Slightly), Methanol (Slightly)

Lot Number: 1-DOY-51-8

Purity: 98%

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

Storage Condition: 4°C

2. Warning

Warning 1:

Warning 2:

Warning 3:

3. Analytical Information

Tests:	Specifications:	Results:
Appearance	White to Off-White Solid	White Solid
NMR	Conforms to Structure	Conforms
Elemental Analysis	Conforms	%C: 65.62, %H: 8.23, %N: 9.03
MS	Conforms to Structure	Conforms
HPLC Purity	Report Result	98.68% (205 nm)
Specific Rotation	Report Result	+0.4° (c = 0.2, Methanol)

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
Evan Burns	Toni Rantanen	Chanell Chu	10/22/2021	10/20/2025
Evan Burns				