



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

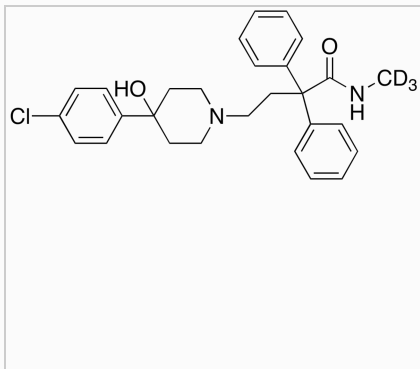
Catalogue Number: D291842

CAS Number: 1189488-17-2

Product: N-Desmethyl Loperamide-d3

Synonym: 4-(4-Chlorophenyl)-4-hydroxy-N-(methyl-d3)- α,α -diphenyl-1-piperidinebutanamide; R 20905-d3;

Structure:



Molecular Formula:

$C_{28}H_{28}D_3ClN_2O_2$

Molecular weight:

466.03

Source of Product:

Synthetic

Solubility:

Ethyl Acetate (Slightly),
Methanol (Slightly)

Lot Number: 6-THT-169-4

Purity: 95%

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:
NMR	Conforms to Structure	Conforms
Appearance	Off-White to Pale Yellow Solid	Pale Yellow Solid
MS	Conforms to Structure	Conforms
Isotopic Purity	>95%	>99.9%
HPLC Purity	Report Result	98.24% (205 nm)

Additional Information:

Normalized Intensity: d0 = 0.00%, d1 = 0.00%, d2 = 0.00%, d3 = 100.00%

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
Meenakshi Sharma	Toni Rantanen	Chanell Chu	6/27/2023	6/25/2027