



CERTIFICATE OF ANALYSIS

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1. Identification

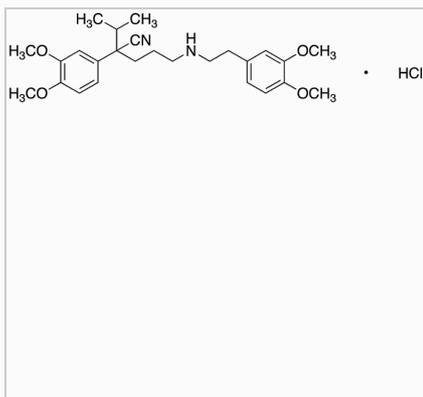
Catalogue Number: N877500

CAS Number: 67812-42-4

Product: Nor Verapamil Hydrochloride

Synonym: α -[3-[[2-(3,4-Dimethoxyphenyl)ethyl]amino]propyl]-3,4-dimethoxy- α -(1-methylethyl)-

Structure:



Molecular Formula:

C₂₆H₃₇ClN₂O₄

Molecular weight:

477.04

Source of Product:

Synthetic

Solubility:

Choroform, Methanol,
(Slightly, Sonicated), Water
(Slightly)

Lot Number: 4-MAR-66-3

Purity: 98%

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	White to Pale Beige Solid	Off-White to Pale Beige Solid
NMR	Conforms to Structure	Conforms
Elemental Analysis	Conforms	%C: 65.17, %H: 7.70, %N: 5.84
MS	Conforms to Structure	Conforms
Specific Rotation	Report Result	0.0° (c = 0.1, Methanol)
HPLC Purity	>95%	99.61% (230 nm)

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
Nicole Yip	Toni Rantanen	My Nguyen	1/29/2021	1/27/2031