



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

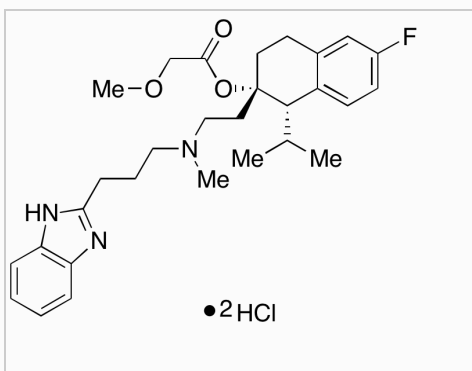
Catalogue Number: M341803

CAS Number: 116666-63-8

Product: Mibefradil Dihydrochloride (>90%)

Synonym:

Structure:



Molecular Formula:

$C_{29}H_{38}FN_3O_3 \cdot 2HCl$

Molecular weight:

568.55

Source of Product:

N/A

Solubility:

DMSO (Slightly), Methanol (Slightly)

Lot Number: 2023-CPO-104

Purity: >90%

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	Off-White to Pale Beige Solid	Pale Yellow to Pale Beige Solid
Elemental Analysis	Conforms	%C: 61.50, %H: 7.22, %N: 7.22
NMR	Conforms to Structure	Conforms
HPLC Purity	Report Result	92.85% (210 nm)
MS	Conforms to Structure	Conforms
Chloride Content	Report Result	9.54% by Ion Chromatography
Specific Rotation	Report Result	+14.2° (c = 0.1, Methanol)
F NMR	Conforms to Structure	Conforms

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
Sarbjeet Kaur	Toni Rantanen	Chanell Chu	5/2/2023	4/30/2027