



CERTIFICATE OF ANALYSIS

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1. Identification

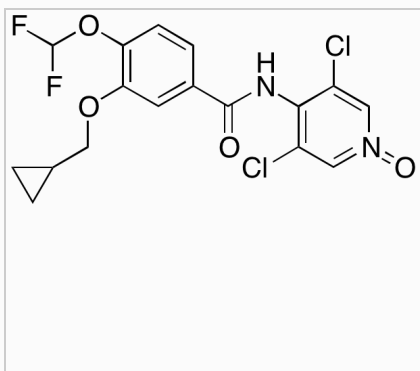
Catalogue Number: R639710

CAS Number: 292135-78-5

Product: Roflumilast N-Oxide

Synonym: 3-(Cyclopropylmethoxy)-N-(3,5-dichloro-1-oxido-4-pyridinyl)-4-(difluoromethoxy)benzamide; N-(3,5-Dichloro-1-oxopyridin-4-yl)-4-difluoromethoxy-3-cyclopropyl-

Structure:



Molecular Formula:

C₁₇H₁₄Cl₂F₂N₂O₄

Molecular weight:

419.21

Source of Product:

Synthetic

Solubility:

Chloroform (Slightly), Ethyl Acetate (Slightly)

Lot Number: 12-BHW-25-3

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 Light Orange Solid	Off-White to Pale Beige Solid
NMR	Conforms to Structure	Conforms
F NMR	Conforms to Structure	Conforms
MS	Conforms to Structure	Conforms
HPLC Purity	Report Result	98.22% (230 nm)
Elemental Analysis	Conforms	%C: 48.61, %H: 3.37, %N: 6.59

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	Christina Gouliaras	2/3/2023	2/1/2023