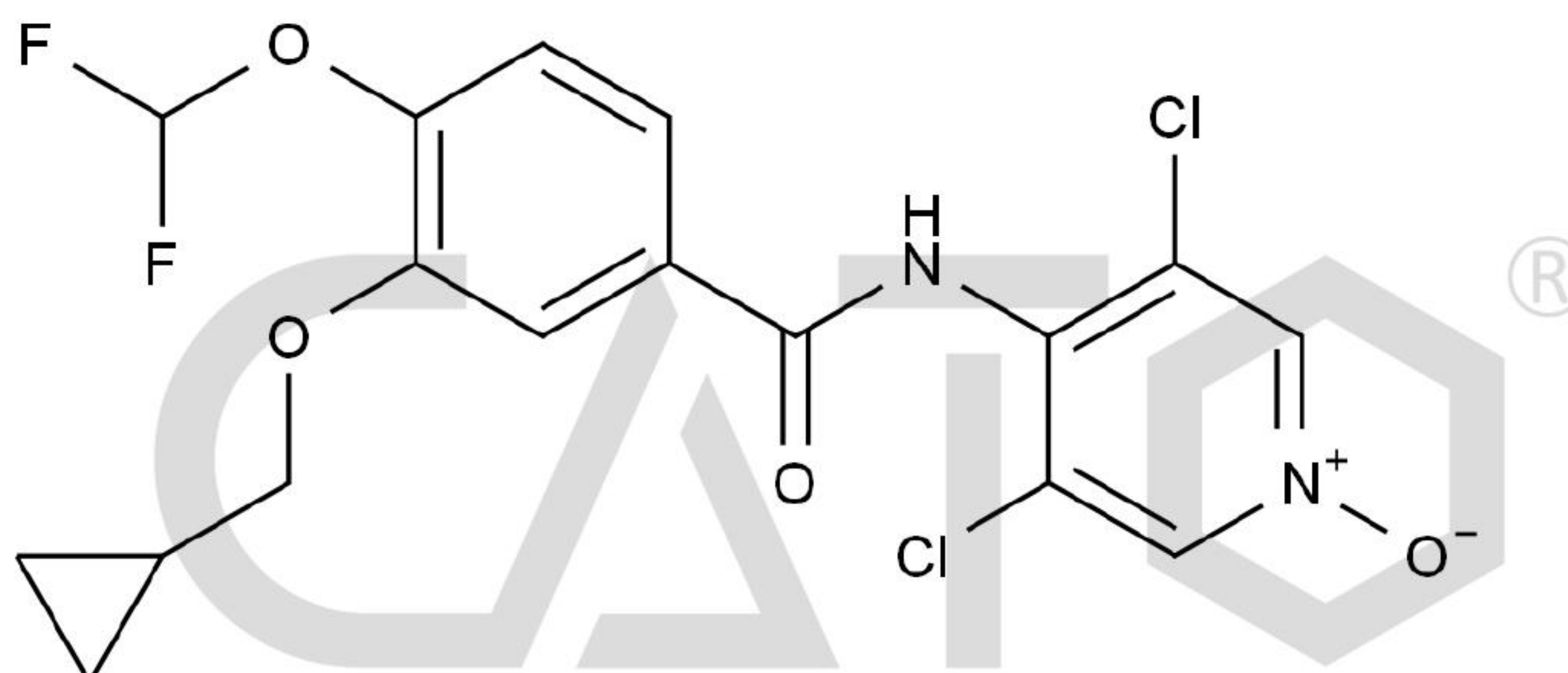


Certificate of Analysis

Reference Material & Standard

Product Name:	Roflumilast N-Oxide	Catalogue Number:	C4X-108412
Synonyms:	N/A	Lot Number:	0713-RH-0045
CAS Number:	292135-78-5	Expiry Date:	Jul 14, 2030
Molecular Formula:	C ₁₇ H ₁₄ Cl ₂ F ₂ N ₂ O ₄	Storage:	-20°C±5°C Protected from light and Sealed
Molecular Weight:	419.21	Shipping Condition:	Shipping with Ice Packs
Solubility:	Acetonitrile	Warning:	

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	White Solid
Identification	LCMS&IR&UV&FNMR&HNMR	Confirmed
Purity	HPLC	99.650%
Loss on Drying	TGA	0.0860%
Assay		99.6%

Comment:

The calculation of the mass balance method follows the formula (calculated on the non-dried basis):

Assay (%) = (100% - Loss on Drying) * Purity HPLC (%) / 100%

Loss on Drying is considered as absolute effect, HPLC purity is considered as relative effect.

Signature:

Prepared by:

Nice

Reviewed by:

Koi

Approved by General Manager:

David

Date: Jul 15, 2026

Date: Jul 16, 2026

Date: Jul 16, 2026



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