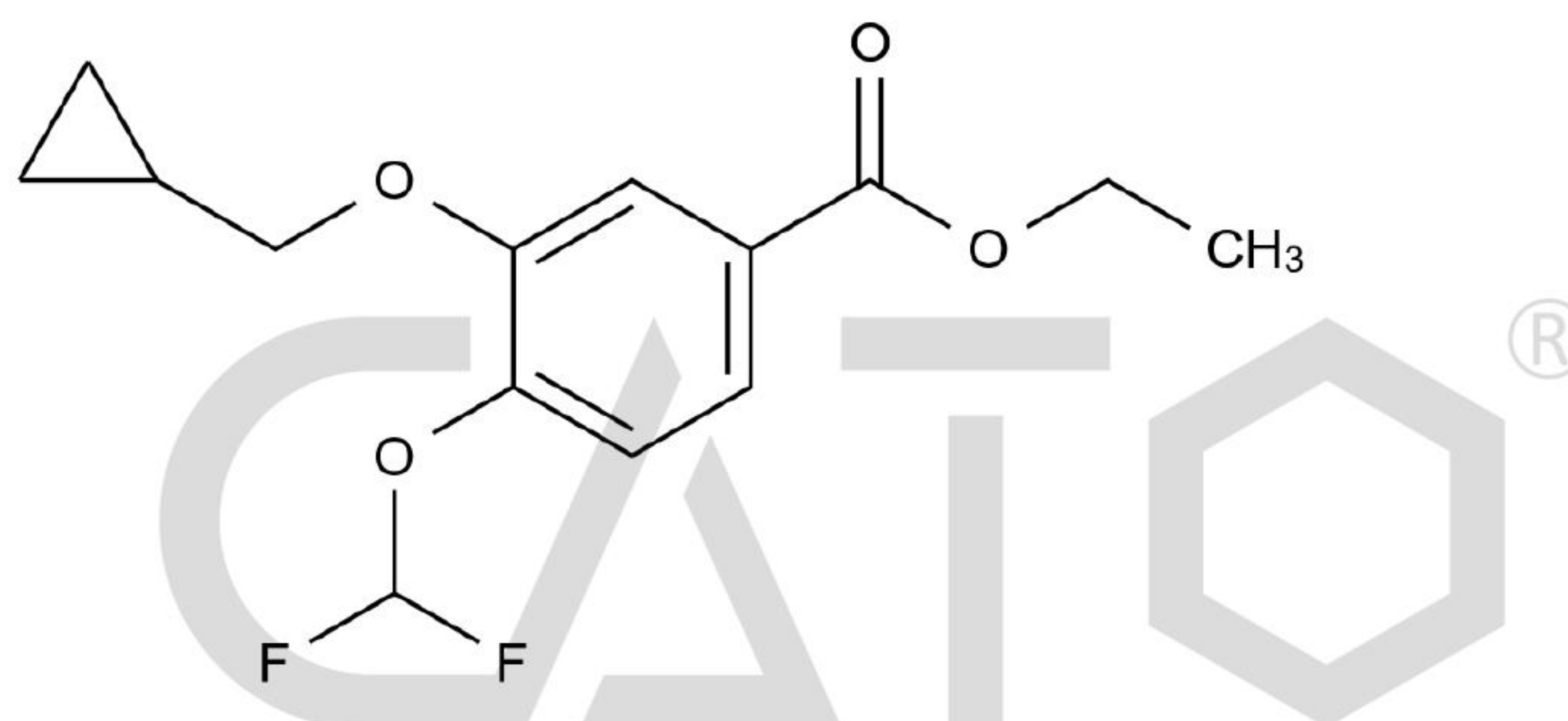


Certificate of Analysis

Reference Material & Standard

Product Name:	Roflumilast Impurity 50	Catalogue Number:	C4X-108450
Synonyms:	N/A	Lot Number:	1016-RG-0027
CAS Number:	1180526-15-1	Expiry Date:	Oct 20, 2029
Molecular Formula:	C ₁₄ H ₁₆ F ₂ O ₄	Storage:	-20°C±5°C Protected from light and Sealed
Molecular Weight:	286.27		

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	White Solid
Identification	LCMS&IR&UV&HNMR	Confirmed
Purity	HPLC	100.000%
Loss On Drying	TGA	0.5080%
Assay		99.5%

Comment:

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

$\text{Assay (\%)} = (100\% - \text{Loss On Drying}) * \text{Purity HPLC (\%)} / 100\%$

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: Oct 21, 2025

Date: Oct 21, 2025

Date: Oct 21, 2025



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