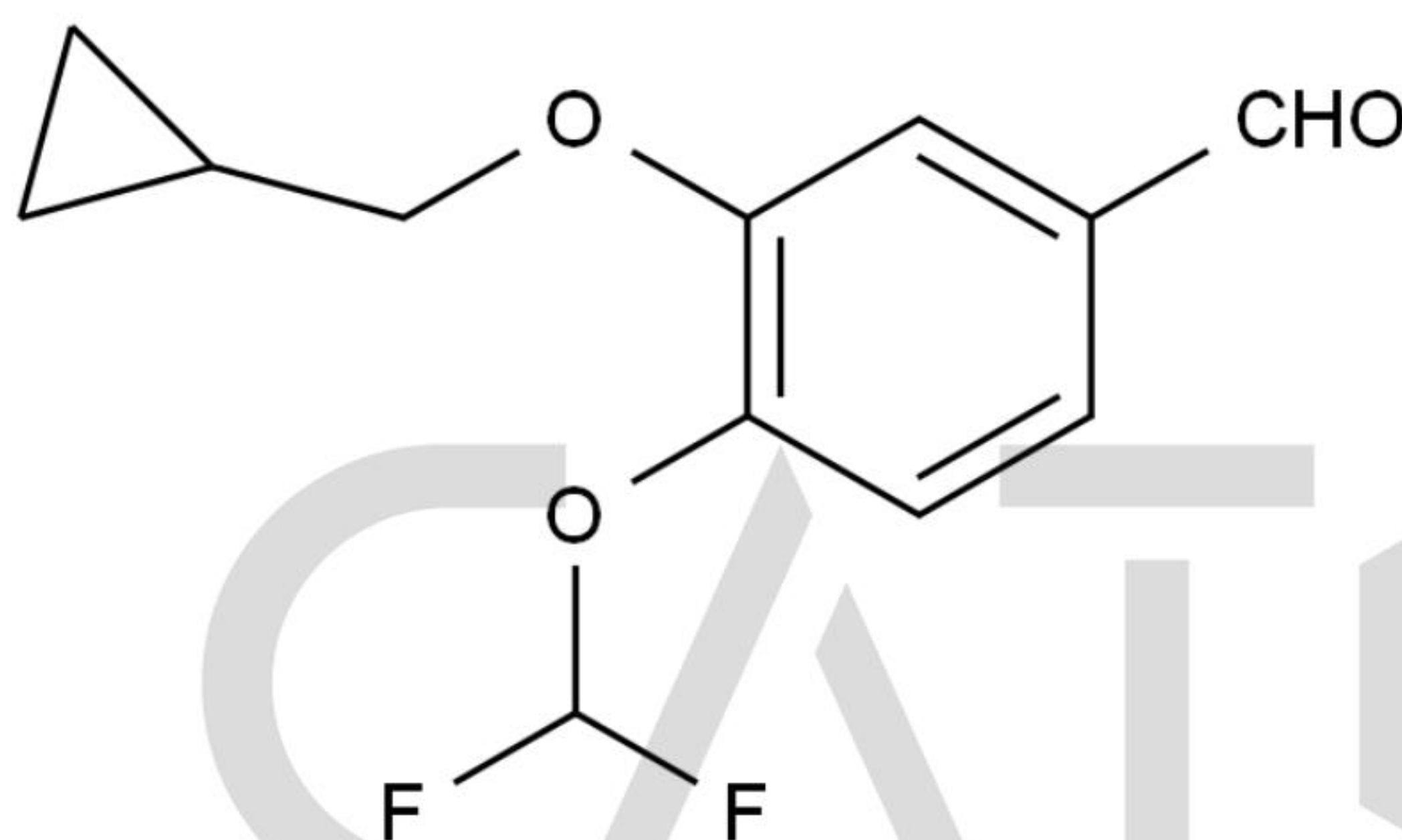


Certificate of Analysis

Reference Material & Standard

Product Name:	Roflumilast impurity 17	Catalogue Number:	C4X-108417
Synonyms:	N/A	Lot Number:	1015-RG-0076
CAS Number:	151103-09-2	Expiry Date:	Oct 19, 2029
Molecular Formula:	C ₁₂ H ₁₂ F ₂ O ₃	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	242.22		

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Colourless Liquid
Identification	LCMS&IR&UV&FNMR&HNMR	Confirmed
Purity	HPLC	98.599%
Loss On Drying	TGA	0.4757%
Assay		98.1%

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: Oct 20, 2025

Date: Oct 20, 2025

Date: Oct 20, 2025



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