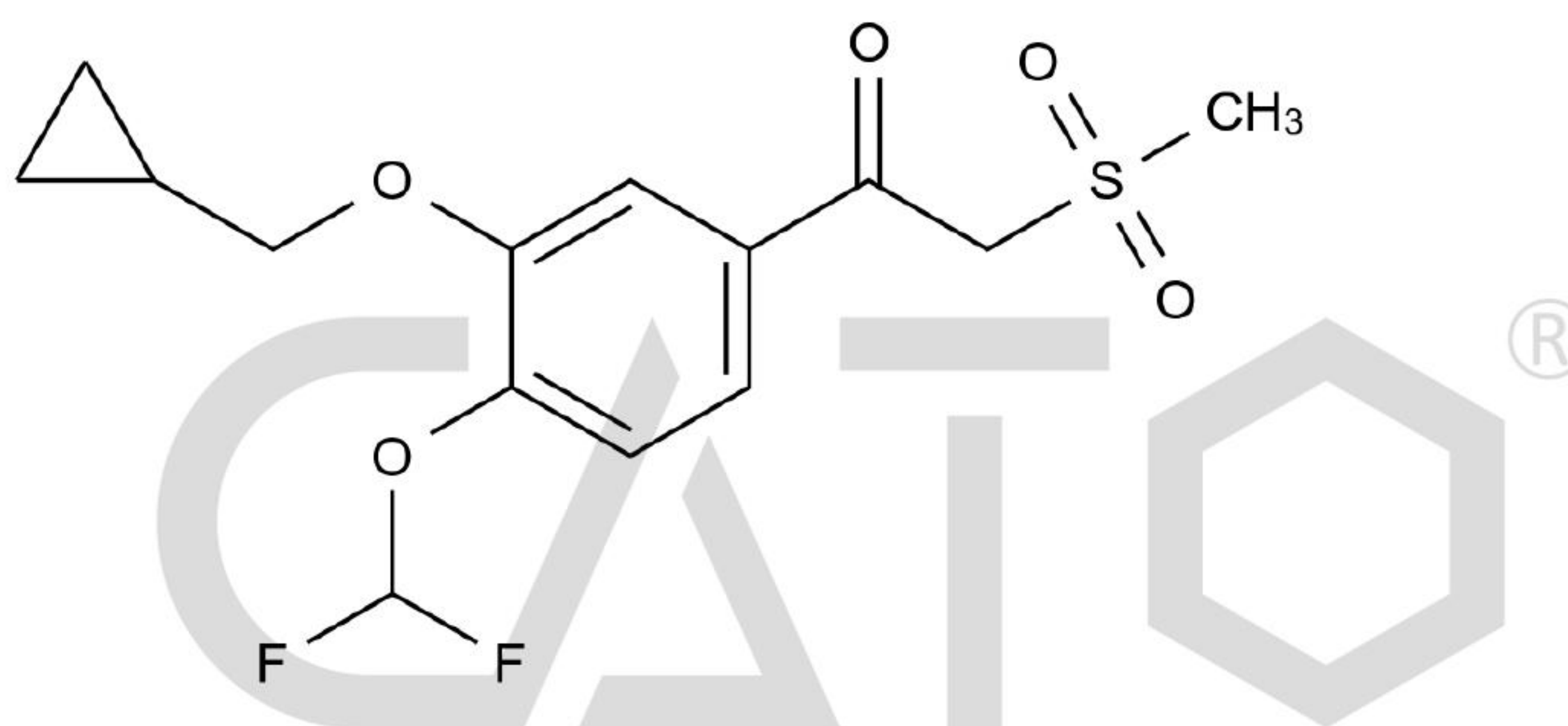


Certificate of Analysis

Reference Material & Standard

Product Name:	Roflumilast Impurity 42	Catalogue Number:	C4X-108442
Synonyms:	N/A	Lot Number:	0923-RG-0009
CAS Number:	N/A	Expiry Date:	Sep 25, 2029
Molecular Formula:	C ₁₄ H ₁₆ F ₂ O ₅ S	Storage:	-20°C±5°C Protected from light and Sealed
Molecular Weight:	334.34		

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	White Solid
Identification	LCMS&IR&UV&HNMR	Confirmed
Purity	HPLC	98.312%
Loss On Drying	TGA	0.1497%
Assay		98.2%

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: Sep 26, 2025

Date: Sep 26, 2025

Date: Sep 26, 2025



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