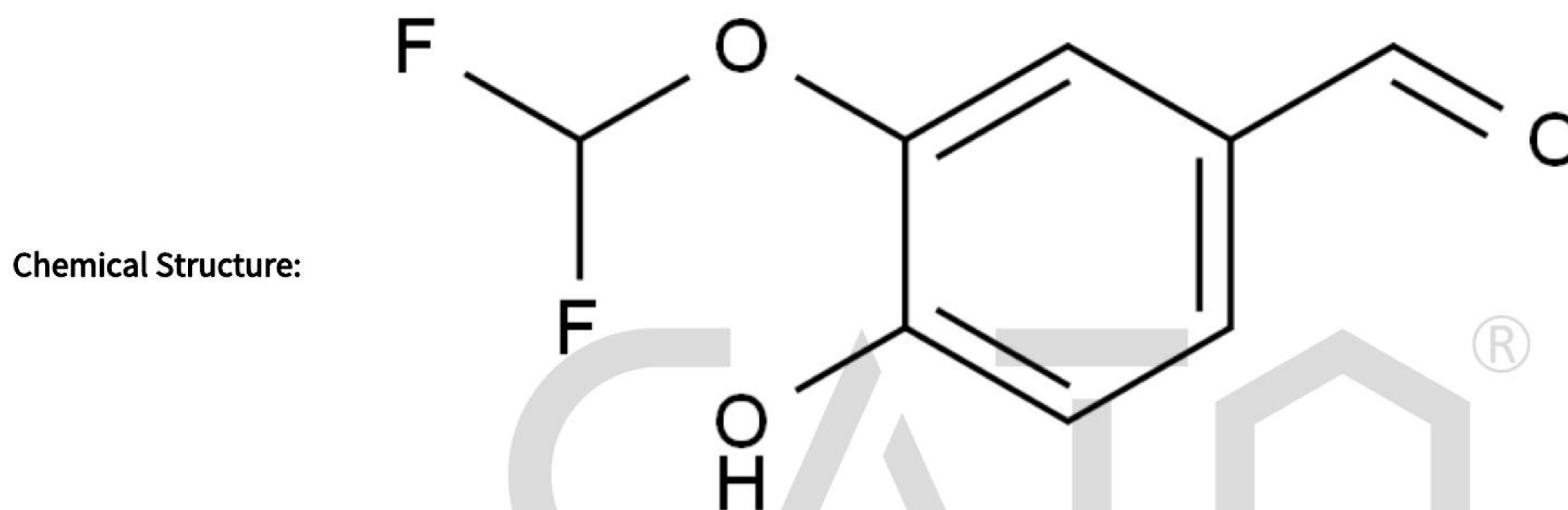


Certificate of Analysis

Reference Material & Standard

Product Name:	Roflumilast Impurity 13	Catalogue Number:	C4X-108413
Synonyms:	N/A	Lot Number:	0730-RG-0031
CAS Number:	53173-70-9	Expiry Date:	Jul 31, 2029
Molecular Formula:	C ₈ H ₆ F ₂ O ₃	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	188.13		



Test Items	Method	Results
Appearance	Visual inspection	Pale Yellow Solid
Identification	LCMS&IR&UV&HNMR	Confirmed
Purity	HPLC	99.860%
Loss On Drying	TGA	0.6930%
Assay		99.2%

Comment:

The calculation of the 100% 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: Aug 01, 2025

Date: Aug 01, 2025

Date: Aug 01, 2025

