

Certificate of Analysis

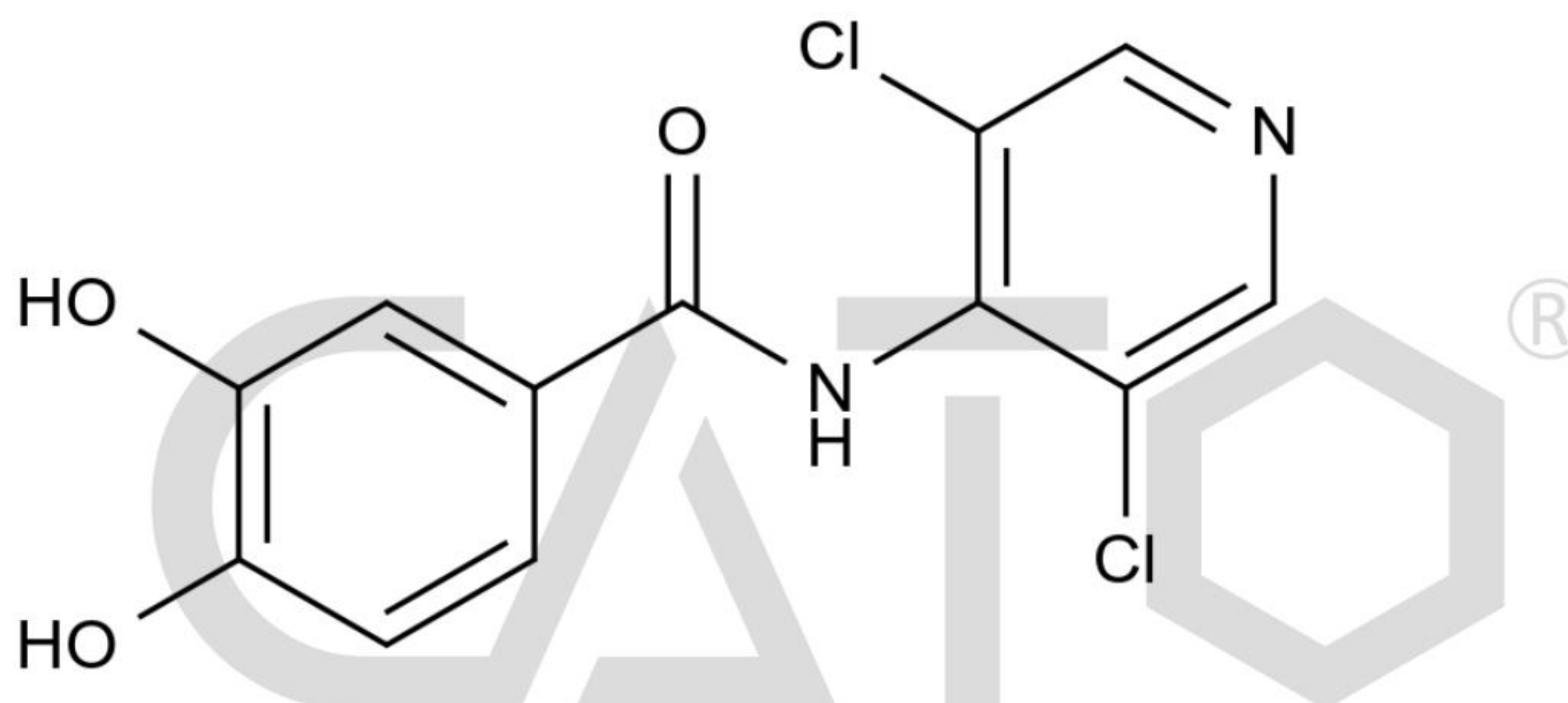
Reference Material & Standard

Product Name:	Roflumilast Impurity C51	Catalogue Number:	C1283751
Synonyms:	N/A	Lot Number:	0728-RG-0068
CAS Number:	1412448-29-3	Expiry Date:	Jul 29, 2029
Molecular Formula:	C ₁₂ H ₈ Cl ₂ N ₂ O ₃	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	299.11		

Warning:



Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Pale Yellow Solid
Identification	LCMS&IR&UV&HNMR	Confirmed
Purity	HPLC	98.473%
Loss on Drying	TGA	3.2521%
Assay		95.3%

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:

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Reviewed by:

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Approved by General Manager:

David

Date: Jul 30, 2025

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