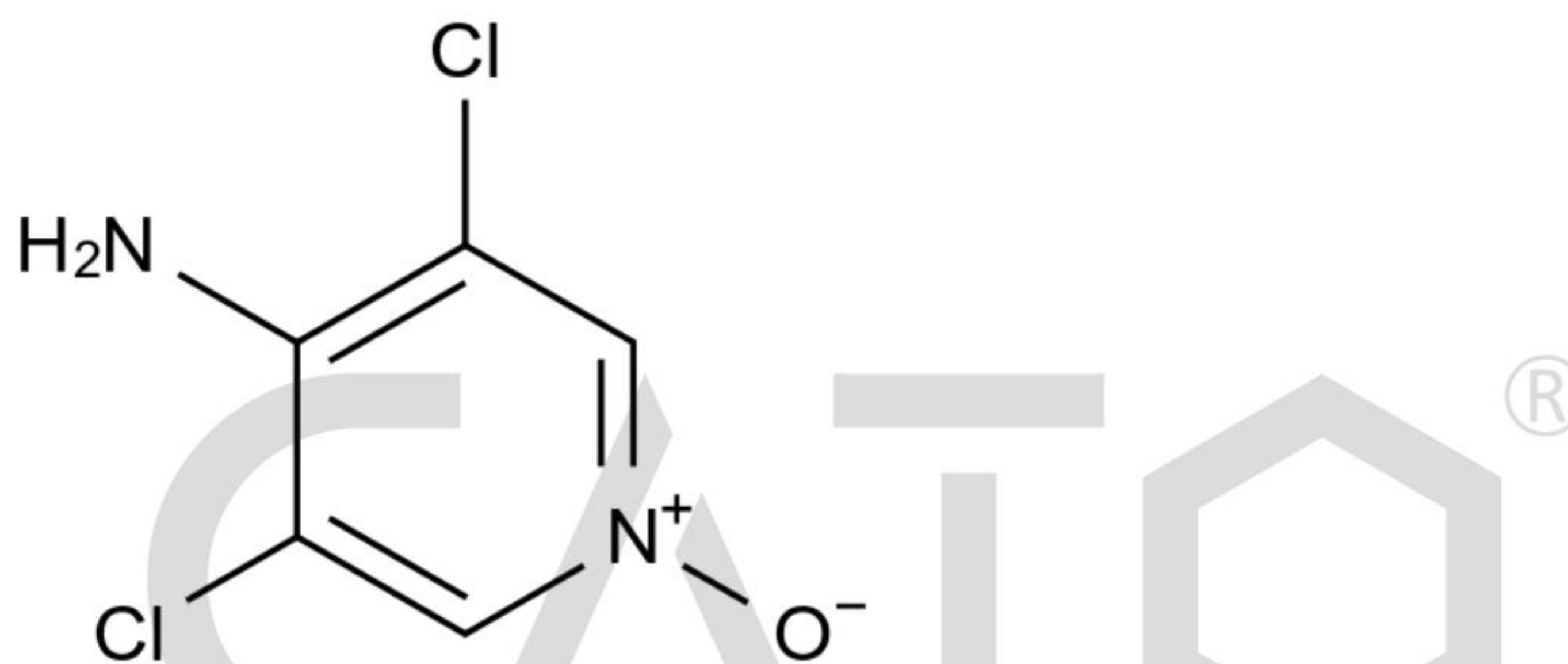


Certificate of Analysis

Reference Material & Standard

Product Name:	Roflumilast Impurity 17	Catalogue Number:	C1894055
Synonyms:	N/A	Lot Number:	0728-RG-0054
CAS Number:	91872-02-5	Expiry Date:	Jul 30, 2029
Molecular Formula:	C ₅ H ₄ Cl ₂ N ₂ O	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	179.00	Warning:	

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	White Solid
Identification	LCMS&IR&UV&HNMR	Confirmed
Purity	HPLC	99.907%
Loss On Drying	TGA	0.0862%
Assay		99.8%

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: Jul 31, 2025

Date: Jul 31, 2025

Date: Jul 31, 2025

