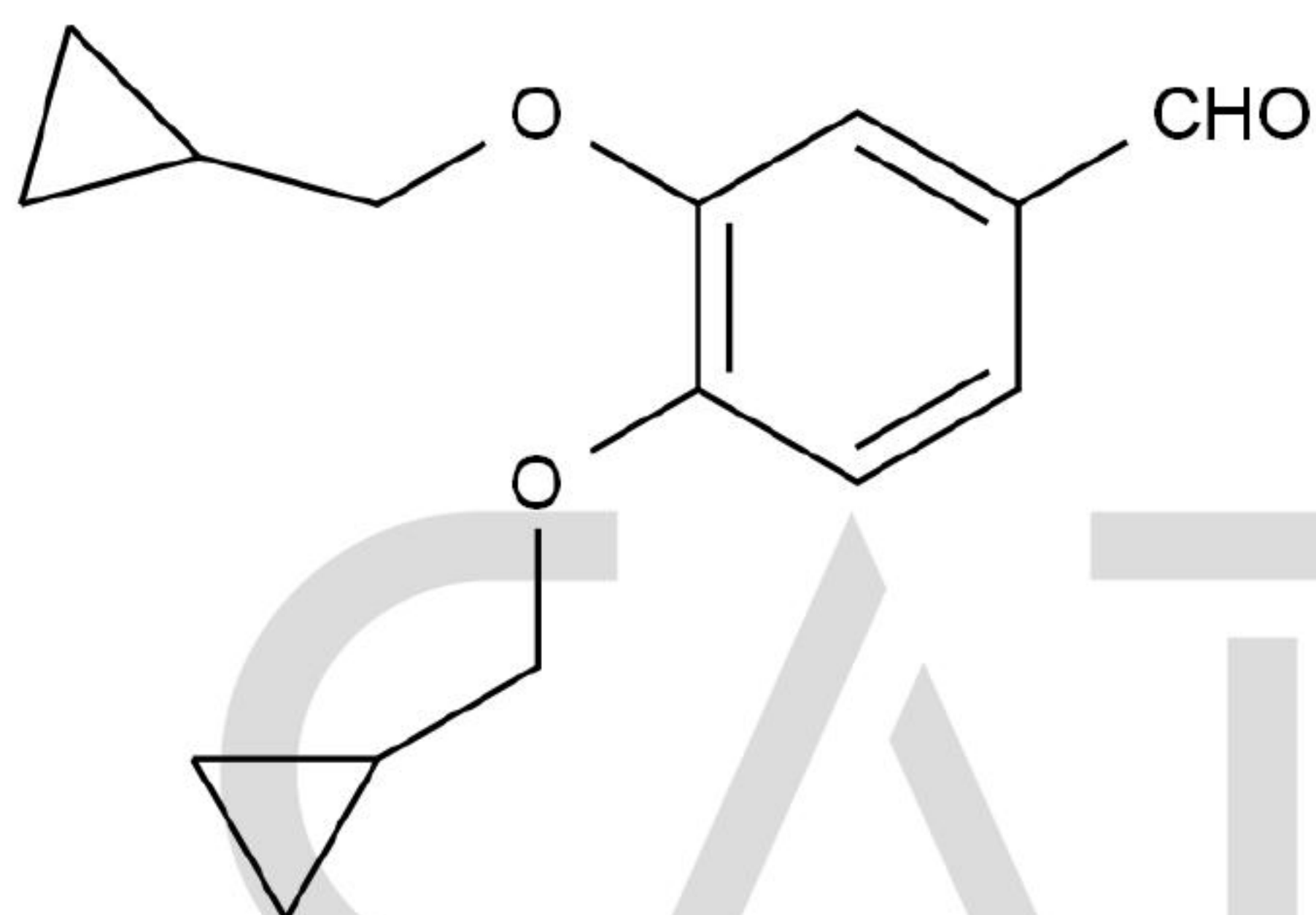


# Certificate of Analysis

## Reference Material & Standard

|                    |                         |                   |                                                                                     |
|--------------------|-------------------------|-------------------|-------------------------------------------------------------------------------------|
| Product Name:      | Roflumilast impurity 23 | Catalogue Number: | C4X-108423                                                                          |
| Synonyms:          | N/A                     | Lot Number:       | 0728-RG-0067                                                                        |
| CAS Number:        | 1369817-76-4            | Expiry Date:      | Jul 29, 2029                                                                        |
| Molecular Formula: | C15H18O3                | Storage:          | 2°C ~ 8°C Protected from light and Sealed                                           |
| Molecular Weight:  | 246.30                  | Warning:          |  |

Chemical Structure:



| Test Items     | Method            | Results         |
|----------------|-------------------|-----------------|
| Appearance     | Visual inspection | Off-White Solid |
| Identification | LCMS&IR&UV&HNMR   | Confirmed       |
| Purity         | HPLC              | 99.650%         |
| Loss On Drying | TGA               | 0.0472%         |
| Assay          |                   | 99.6%           |

## 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 30, 2025

Date: Jul 30, 2025

Date: Jul 30, 2025

