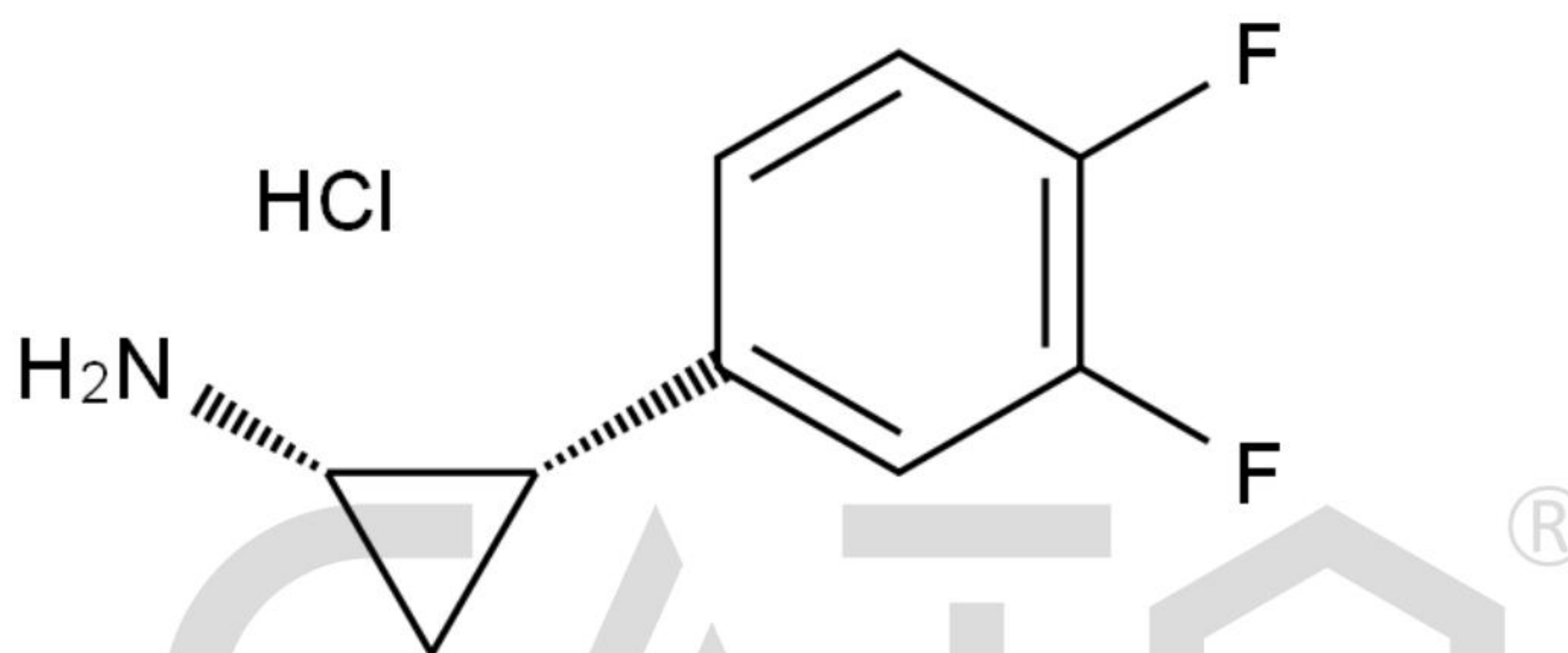


# Certificate of Analysis

## Reference Material

|                    |                                                    |                   |                                           |
|--------------------|----------------------------------------------------|-------------------|-------------------------------------------|
| Product Name:      | Ticagrelor Impurity 65 HCl                         | Catalogue Number: | C4X-109365                                |
| Chemical Name:     | N/A                                                | Lot Number:       | 0710-RE-0081                              |
| CAS Number:        | N/A                                                | Expiry Date:      | Jul 02, 2026                              |
| Molecular Formula: | C <sub>9</sub> H <sub>9</sub> F <sub>2</sub> N HCl | Storage:          | 2°C ~ 8°C Protected from light and Sealed |
| Molecular Weight:  | 169.17 36.46                                       |                   |                                           |

Chemical Structure:



| Test Items       | Method            | Results                                                             |
|------------------|-------------------|---------------------------------------------------------------------|
| Appearance       | Visual inspection | White to Off-White Solid                                            |
| Identification   | LCMS&IR&HNMR      | Confirmed                                                           |
| Purity           | HPLC              | 100.0%                                                              |
| Optical Rotation |                   | [α] <sub>D</sub> <sup>20.0</sup> (c=0.44, H <sub>2</sub> O): +33.3° |
| Assay            | qNMR              | 99.6%                                                               |

## Comment:

Assay was determined by quantitative <sup>1</sup>H-NMR.

Signature:

Prepared by:

*Lily*

Reviewed by:

*Hinlam*

Aporoved by General manager:

*David*

Date: Jul 03, 2023

Date: Jul 12, 2023

Date: Jul 12, 2023

