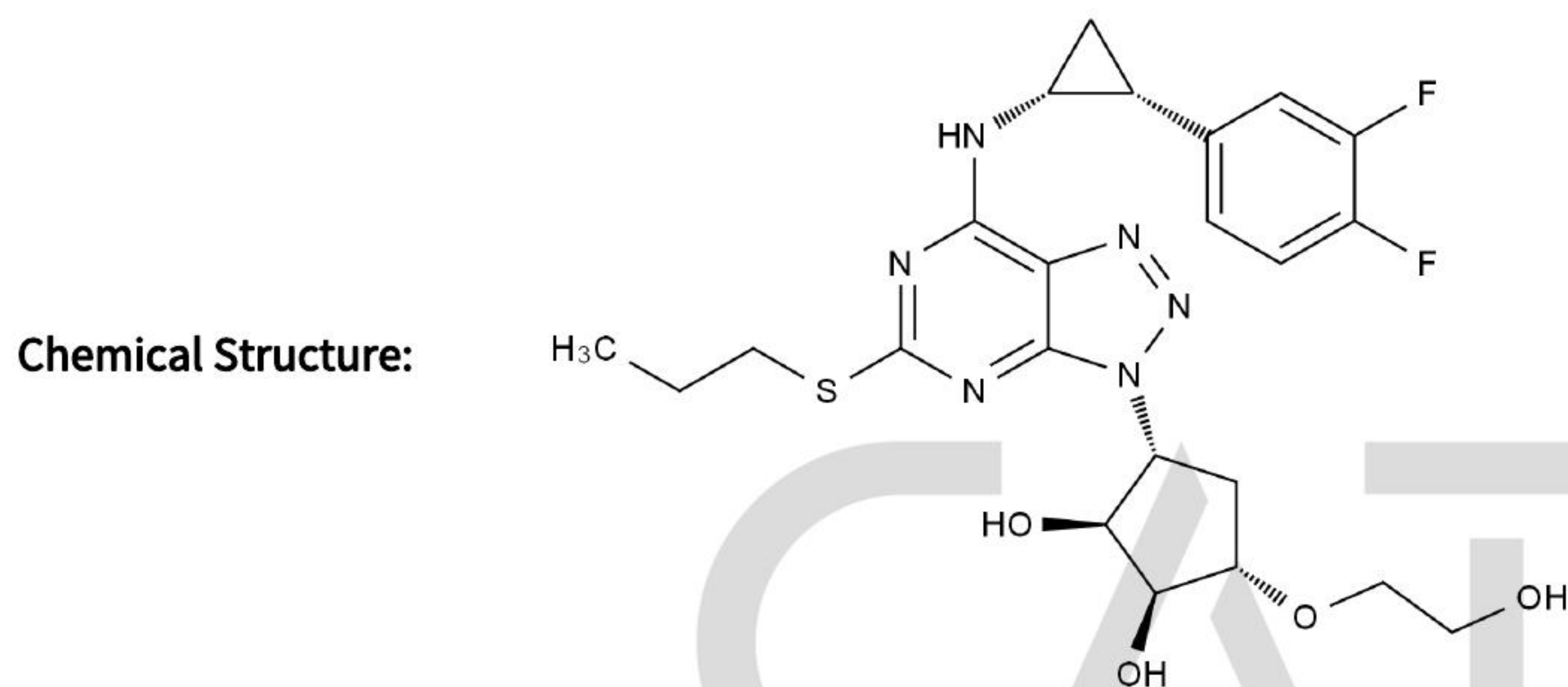


Certificate of Analysis

Reference Material & Standard

Product Name:	Ticagrelor Impurity 89	Catalogue Number:	C4X-109389
Synonyms:	N/A	Lot Number:	0415-RD-0106
CAS Number:	2056269-94-2	Expiry Date:	Aug 16, 2025
Molecular Formula:	C23H28F2N6O4S	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	522.57		



Test Items	Method	Results
Appearance	Visual inspection	White to Off-White Solid
Identification	LCMS&IR&HNMR	Confirmed
Purity	HPLC	99.5417%
Water Content	Karl Fischer	2.2%
Residual Solvents	NMR	0.2% methanol
Optical Rotation		[α] _D ^{24.1} (c=1.18, CH ₃ OH): +231.6°
Assay		97.2%

Comment:

The calculation of the 100% method follows the formula (calculated on the non-dried basis):

Assay (%) = (100% - Water Content - Residual Solvents) * Purity HPLC (%) / 100%

Water Content and Residual Solvents are considered as absolute effect, HPLC purity is considered as relative effect.

Signature:

Prepared by:

Lily

Reviewed by:

Lisa

Approved by General Manager:

David

Date: Jul 22, 2024

Date: Jul 22, 2024

Date: Jul 22, 2024

