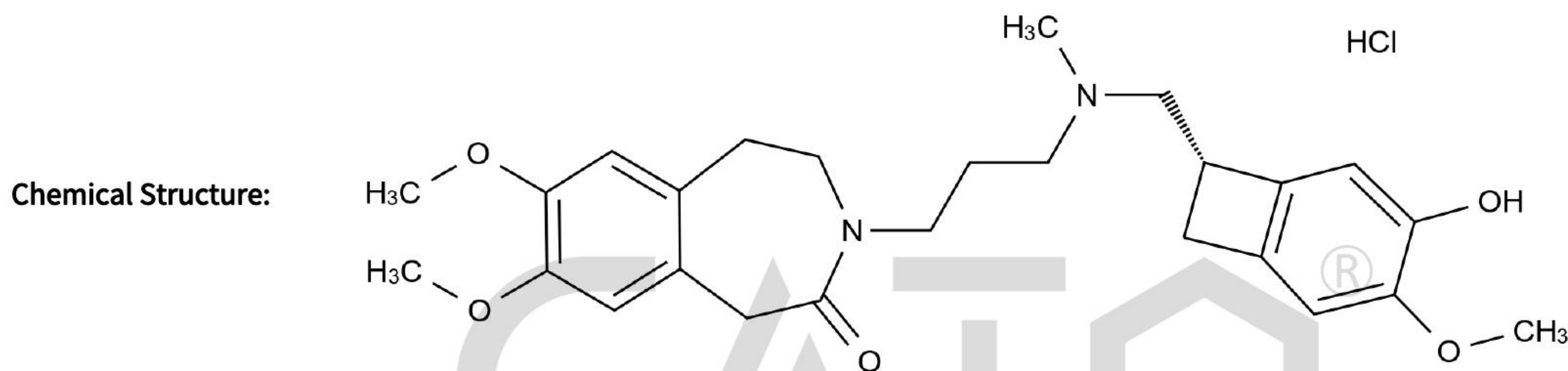


Certificate of Analysis

Reference Material & Standard

Product Name:	Ivabradine Impurity 61 HCl	Catalogue Number:	C4X-111961
Synonyms:	N/A	Lot Number:	0718-RG-0049
CAS Number:	304465-03-0(Free Base)	Expiry Date:	Oct 07, 2026
Molecular Formula:	C ₂₆ H ₃₄ N ₂ O ₅ HCl	Storage:	-20°C±5°C Protected from light and Sealed
Molecular Weight:	454.56 36.46		



Test Items	Method	Results
Appearance	Visual inspection	White to Off-White Solid
Identification	LCMS&IR&HNMR	Confirmed
Purity	HPLC	95.6147%
Water Content	Karl Fischer	2.90%
Residual Solvents	NMR	0.2% ethyl acetate
Optical Rotation		[α] _D ^{25.0} (c=0.52,DMSO): +5.0°
Assay		92.7%

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:

Hinlam

Approved by General Manager:

David

Date: Jul 22, 2025

Date: Jul 22, 2025

Date: Jul 22, 2025

