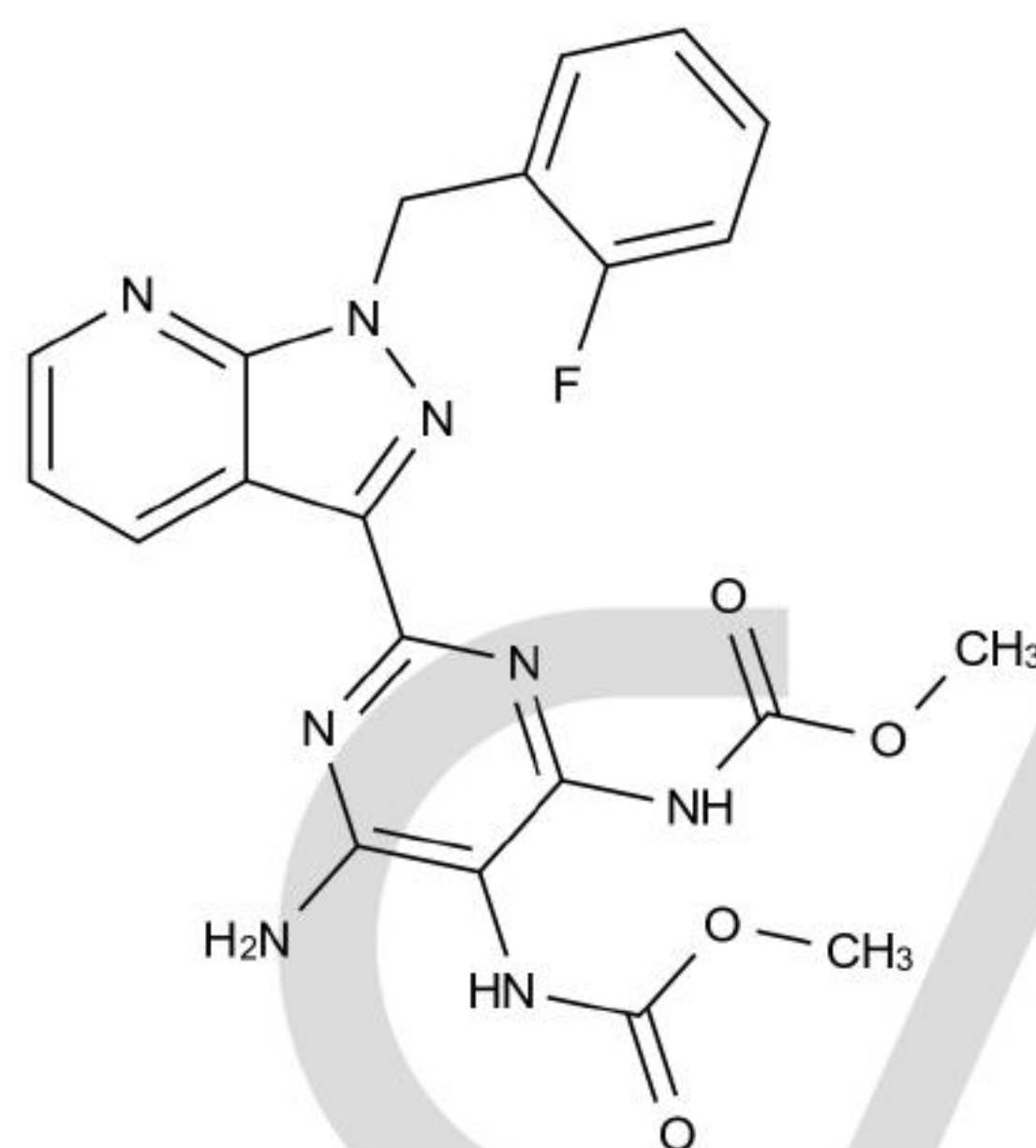


Certificate of Analysis

Reference Material & Standard

Product Name:	Riociguat Impurity 25	Catalogue Number:	C4X-174925
Synonyms:	N/A	Lot Number:	1024-RE-0048
CAS Number:	N/A	Expiry Date:	Feb 26, 2030
Molecular Formula:	C ₂₁ H ₁₉ FN ₈ O ₄	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	466.43	Shipping Condition:	Shipping at Room Temperature

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Yellow Solid
Identification	LCMS&UV&HNMR	Confirmed
Purity	HPLC	98.797%
Water Content	Karl Fischer	0.27%
Residual Solvents	NMR	0.50% acetonitrile
Assay		98.0%

Comment:

The calculation of the mass balance 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:

Reviewed by:

Approved by General Manager:

Date: Mar 03, 2026

Date: Mar 03, 2026

Date: Mar 03, 2026



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