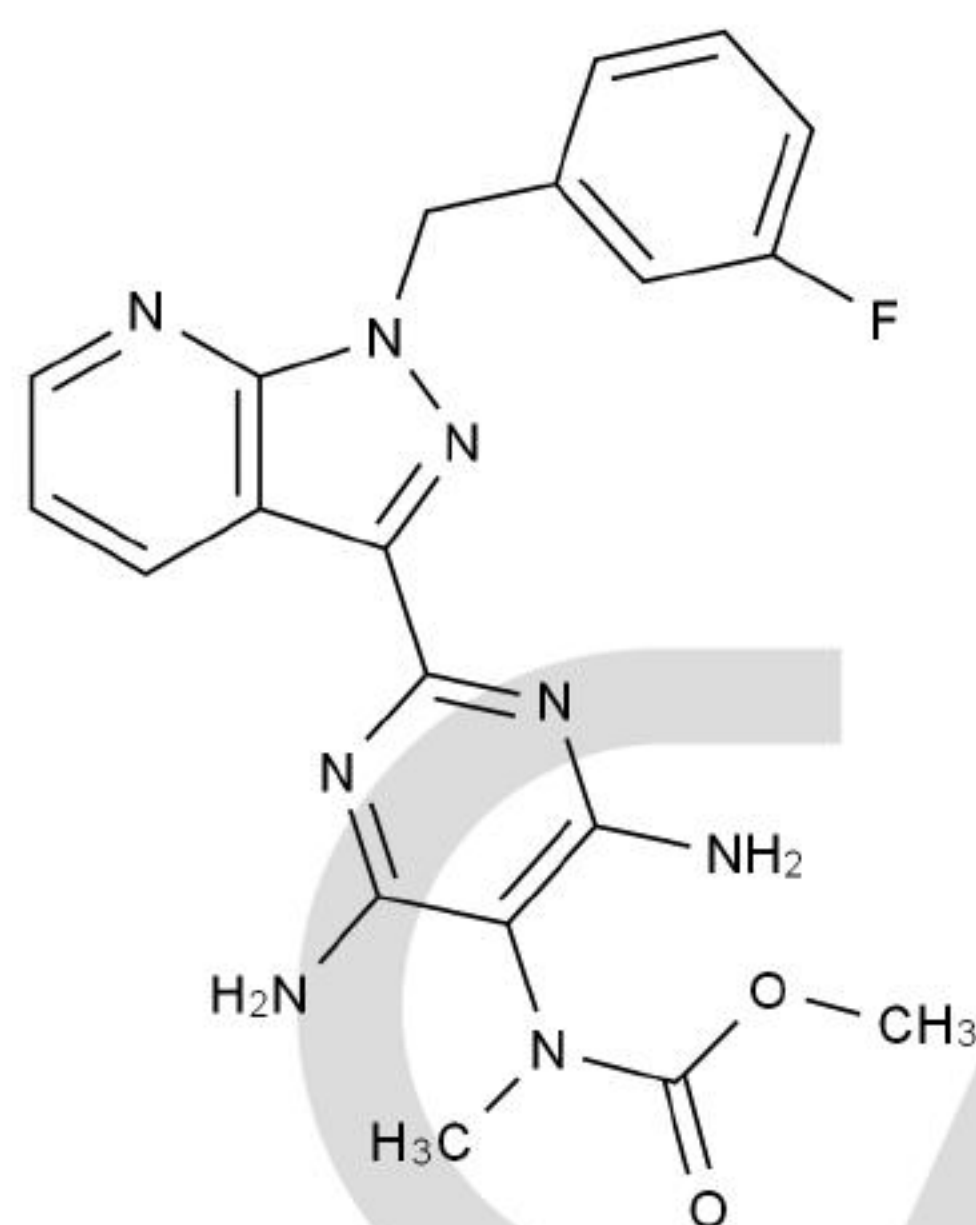


Certificate of Analysis

Reference Material & Standard

Product Name:	Riociguat Impurity 22	Catalogue Number:	C4X-174922
Synonyms:	N/A	Lot Number:	0126-RH-0094
CAS Number:	N/A	Expiry Date:	Jan 21, 2030
Molecular Formula:	C ₂₀ H ₁₉ FN ₈ O ₂	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	422.42	Shipping Condition:	Shipping at Room Temperature

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	White Solid
Identification	LCMS&UV&HNMR	Confirmed
Purity	HPLC	99.780%
Water Content	Karl Fischer	0.48%
Residual Solvents	NMR	Not detected in NMR
Assay		99.3%

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: Jan 30, 2026

Date: Jan 30, 2026

Date: Jan 30, 2026



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