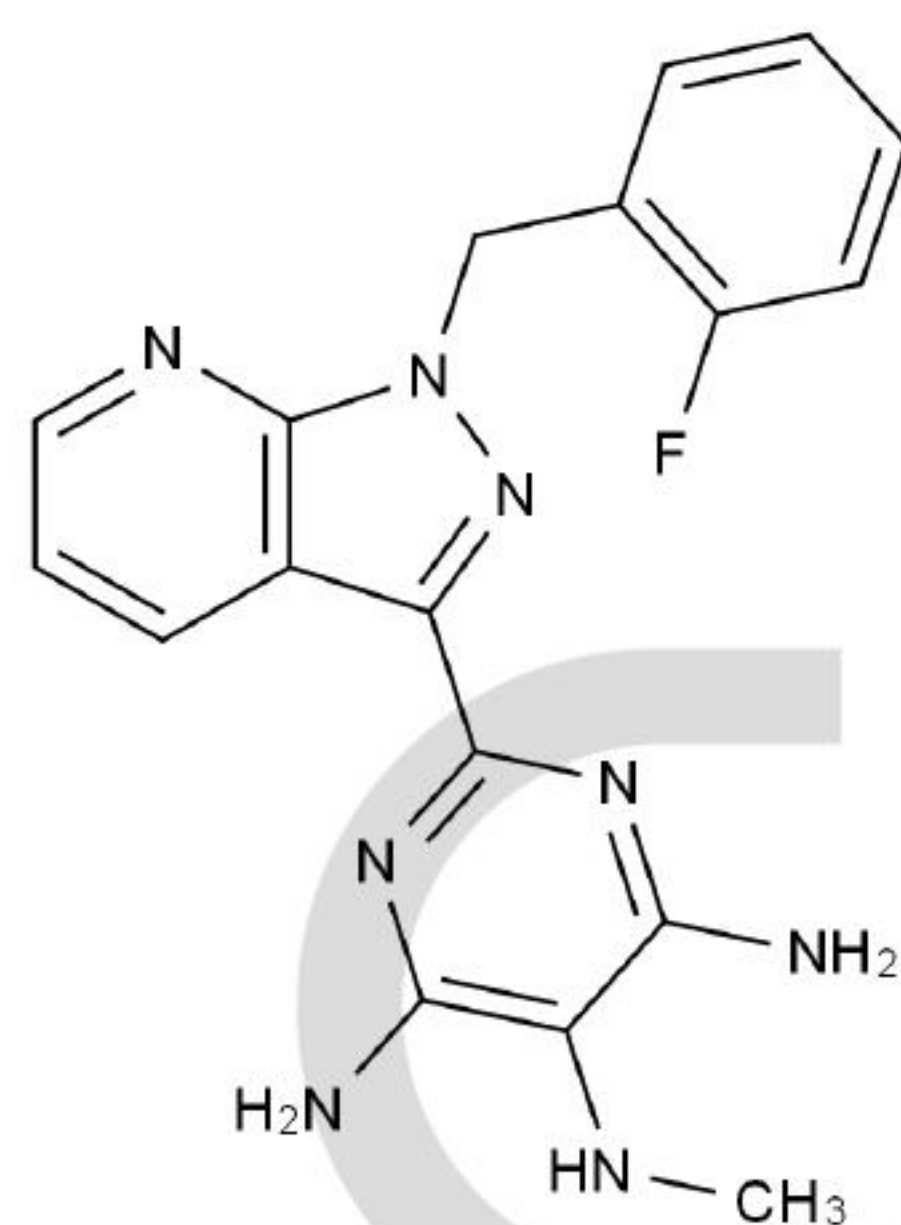


Certificate of Analysis

Reference Material & Standard

Product Name:	Riociguat Impurity 1	Catalogue Number:	C4X-17491
Synonyms:	N/A	Lot Number:	1201-RG-0144
CAS Number:	1702271-98-4	Expiry Date:	Nov 24, 2029
Molecular Formula:	C ₁₈ H ₁₇ FN ₈	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	364.38	Shipping Condition:	Shipping at Room Temperature

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Yellow Solid
Identification	LCMS&UV&HNMR	Confirmed
Purity	HPLC	99.260%
Water Content	Karl Fischer	0.22%
Assay		99.0%

Comment:

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

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

Water Content is considered as absolute effect, HPLC purity is considered as relative effect.

Signature:

Prepared by:

Hin Lam

Reviewed by:

Lisa

Approved by General Manager:

David

Date: Dec 03, 2025

Date: Dec 03, 2025

Date: Dec 03, 2025



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