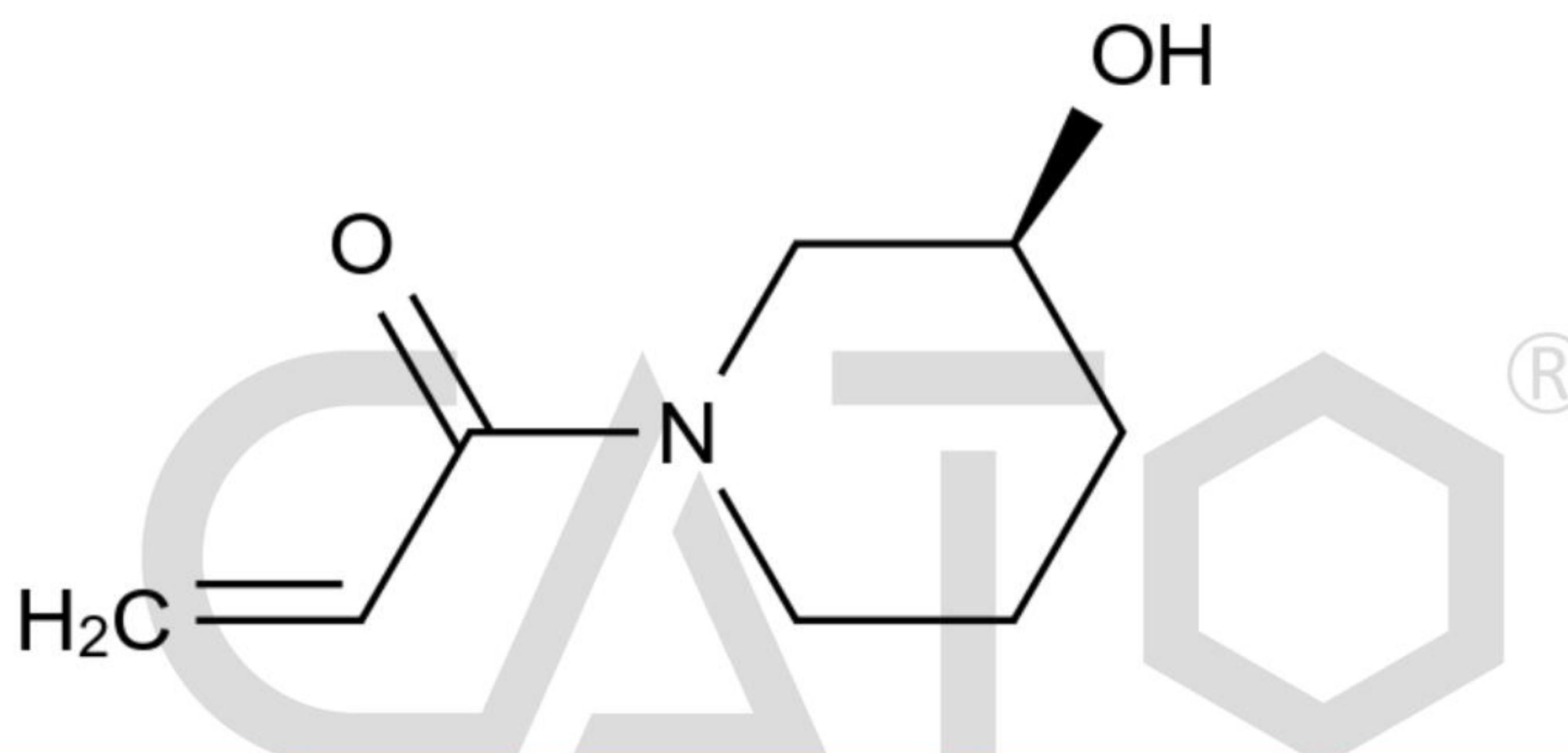


Certificate of Analysis

Reference Material & Standard

Product Name:	Ibrutinib Impurity 156	Catalogue Number:	C4X-1064156
Synonyms:	N/A	Lot Number:	0705-RH-0068
CAS Number:	1642601-01-1	Expiry Date:	Jul 06, 2030
Molecular Formula:	C ₈ H ₁₃ NO ₂	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	155.19	Shipping Condition:	Shipping at Room Temperature
Solubility:	Acetonitrile		

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Light Yellow Liquid
Identification	LCMS&HNMR	Confirmed
Purity	HPLC	99.819%
Loss on Drying	TGA	4.3043%
Assay		95.5%

Comment:

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

Assay (%) = (100% - Loss on Drying) * Purity HPLC (%) / 100%

Loss on Drying is considered as absolute effect, HPLC purity is considered as relative effect.

Signature:

Prepared by:

Nice

Reviewed by:

Koi

Approved by General Manager:

David

Date: Jul 07, 2026

Date: Jul 07, 2026

Date: Jul 07, 2026



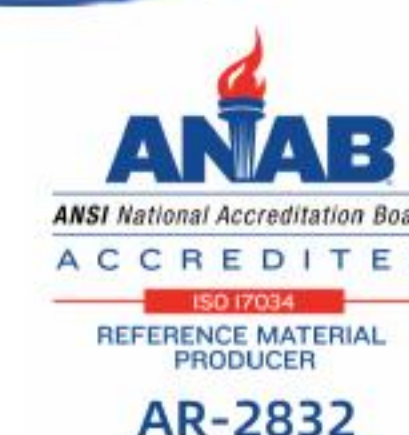
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