

Certificate of Analysis

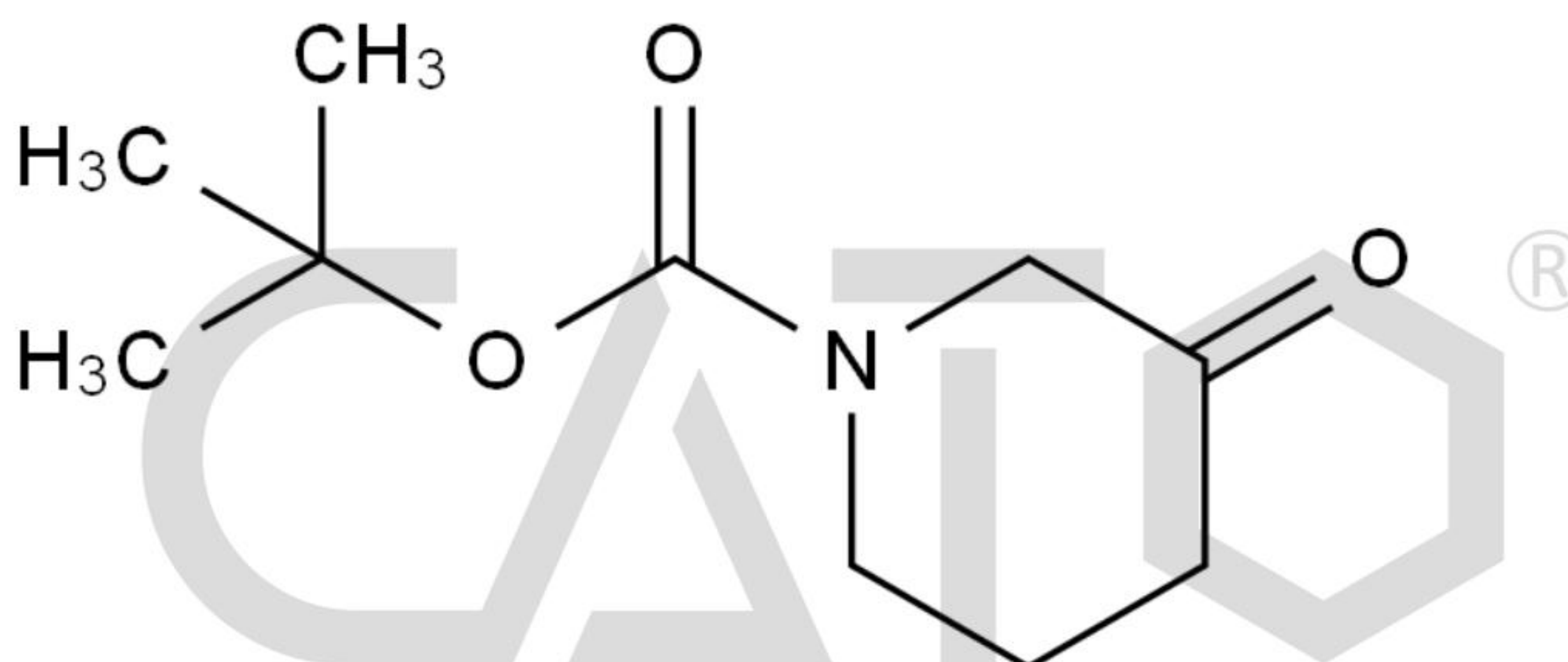
Reference Material & Standard

Product Name:	Ibrutinib Impurity N34	Catalogue Number:	CP154957
Synonyms:	N/A	Lot Number:	0515-RH-0128
CAS Number:	98977-36-7	Expiry Date:	May 25, 2030
Molecular Formula:	C ₁₀ H ₁₇ NO ₃	Storage:	-20°C±5°C Protected from light and Sealed
Molecular Weight:	199.25	Shipping Condition:	Shipping with Ice Packs

Warning:



Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Off-White Solid
Identification	GCMS&HNMR	Confirmed
Purity	GC	99.385%
Water Content	Karl Fischer	1.0169%
Assay		98.4%

Comment:

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

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

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

Signature:

Prepared by:

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Approved by General Manager:

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Date: May 26, 2026

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