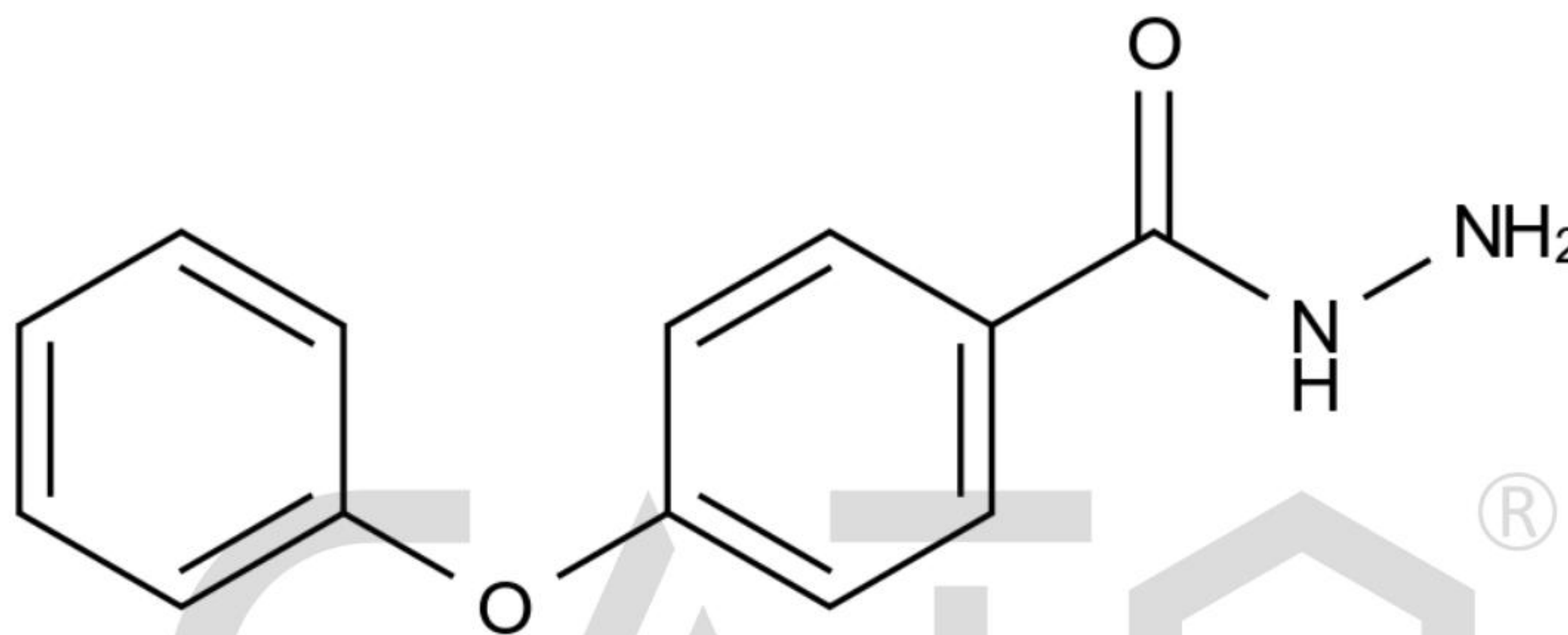


Certificate of Analysis

Reference Material

Product Name:	Ibrutinib Impurity 81	Catalogue Number:	C4X-106481
Chemical Name:	N/A	Lot Number:	0920-RE-0052
CAS Number:	143667-36-1	Expiry Date:	Sep 26, 2026
Molecular Formula:	C ₁₃ H ₁₂ N ₂ O ₂	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	228.25		

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Yellow-Brown Solid
Identification	LCMS&HNMR	Confirmed
Purity	HPLC	95.6%
Assay	qNMR	94.7%

Comment:

Assay was determined by quantitative ¹H-NMR.

Signature:

Prepared by:

Nice

Reviewed by:

Koi

Aporoved by General manager:

David

Date: Sep 27, 2023

Date: Sep 27, 2023

Date: Sep 27, 2023

