

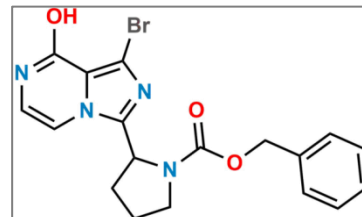
Analysis Date: 01-01-2026

Re-test Date: 01-01-2029

ACALABRUTINIB IMPURITY 23

Identification

Chemical Name	: Benzyl 2-(1-bromo-8-hydroxyimidazo[1,5-a]pyrazin-3-yl)pyrrolidine-1-carboxylate
CAT No	: ALL-ACA-1324
CAS No	: N.A.
Molecular Formula	: C ₁₈ H ₁₇ BrN ₄ O ₃
Molecular Weight	: 417.3



Analytical Information

Batch No.	: ALL-ACA-1324	HPLC Purity	: 98.00 %
Solubility	: USP Diluent / EP Diluent (MEOH)	Potency	: 97.21 %
Appearance of Product	: Off White Solid	Mass	: Confirm
Long Term Storage	: -20°C	IR Analysis	: Confirm
Weight Loss By TGA	: 0.146 %	¹HNMR	: Confirm
Residue Of Ignition	: 0.657 %		

Additional Information

$$\%Potency = [100 - (\text{Weight Loss By TGA \%} + \text{Residue Of Ignition \%}) \times \text{Chromatographic Purity\%}] / 100 = [100 - (0.146 + 0.657) \times 98.00] / 100 = 97.21 \%$$

Recommendation : Released

	Department	Name	Signature
Prepared and Reviewed by	Analytical	Mr. Vipul khadase Jr. Executive	
Approved By	QA&QC	Dr. Ashish Keche Director QA&QC	

Attachment : HPLC, Mass, ¹H NMR, IR, TGA

Shipping Condition : All Product are stable to be shipped at room temperature, unless otherwise specified

Corporate Office