

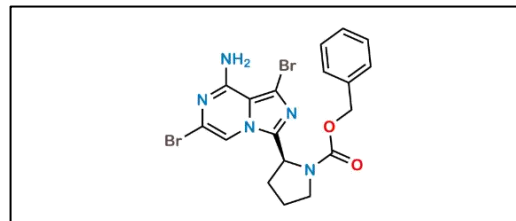
Analysis Date: 01-01-2026

Re-test Date: 01-01-2029

## ACALABRUTINIB IMPURITY 41

### Identification

<b>Chemical Name</b>	: Benzyl (S)-2-(8-amino-1,6-dibromoimidazo[1,5-a]pyrazin-3-yl)pyrrolidine-1-carboxylate
<b>CAT No</b>	: ALL-ACA-1326
<b>CAS No</b>	: N.A.
<b>Molecular Formula</b>	: C <sub>18</sub> H <sub>17</sub> Br <sub>2</sub> N <sub>5</sub> O <sub>2</sub>
<b>Molecular Weight</b>	: 495.2



### Analytical Information

<b>Batch No</b>	: ALL-ACA-1326	<b>HPLC Purity</b>	: 98.00 %
<b>Solubility</b>	: Methanol, DMSO	<b>Potency</b>	: 95.93 %
<b>Appearance of Product</b>	: Off White Solid	<b>Mass</b>	: Confirm
<b>Long Term Storage</b>	: -20°C	<b>IR Analysis</b>	: Confirm
<b>Weight Loss By TGA</b>	: 0.906 %	<b><sup>1</sup>H NMR</b>	: Confirm
<b>Residue Of Ignition</b>	: 1.199%		

### Additional Information

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

$$[100 - (0.906 + 1.199) \times 98.00] / 100 = 95.93 \%$$

**Recommendation** : Released

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

**Attachment** : HPLC, Mass, <sup>1</sup>H NMR, IR

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

### Corporate Office