

Analysis Date: 02-01-2026

Re-test Date: 02-01-2029

## ACALABRUTINIB NITROSO IMPURITY 3

### Identification

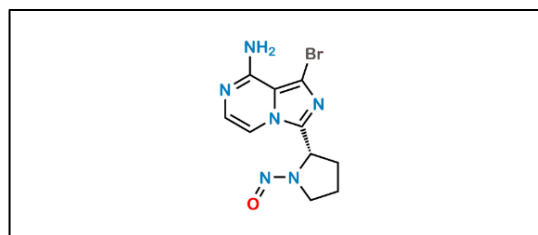
**Chemical Name** : (S)-1-Bromo-3-(1-nitrosopyrrolidin-2-yl)imidazo[1,5-a]pyrazin-8-amine

**CAT No** : ALL-ACA-1332

**CAS No** : N.A.

**Molecular Formula** : C<sub>10</sub>H<sub>11</sub>BrN<sub>6</sub>O

**Molecular Weight** : 311.1



### Analytical Information

<b>Batch No.</b>	: ALL-ACA-1332	<b>HPLC Purity</b>	: 98.00 %
<b>Solubility</b>	: MeOH: ACN	<b>Potency</b>	: 97.03 %
<b>Appearance of Product</b>	: Off White Solid	<b>Mass</b>	: Confirm
<b>Long Term Storage</b>	: 2-8 <sup>o</sup> C	<b>IR Analysis</b>	: Confirm
<b>Weight Loss By TGA</b>	: 0.714 %	<b><sup>1</sup>H NMR</b>	: Confirm
<b>Residue Of Ignition</b>	: 0.271 %		

### Additional Information

**%Potency** = [100 -( Weight Loss By TGA % + Residue Of Ignition %) × Chromatographic Purity%]/100 =  
 [100 – (0.714 + 0.271) × 98.00]/100= 97.03 %

**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, <sup>1</sup>H NMR, IR, TGA

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

#### Corporate Office