

Analysis Date: 02-01-2026

Re-test Date: 02-01-2029

## ACALABRUTINIB NITROSO IMPURITY 4

### Identification

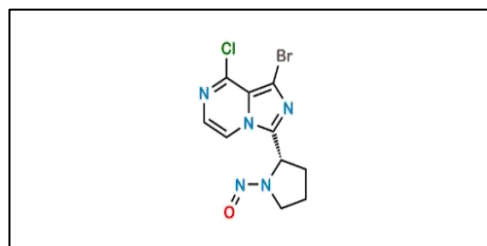
**Chemical Name** : (S)-1-Bromo-8-chloro-3-(1-nitrosopyrrolidin-2-yl)imidazo[1,5-a]pyrazine

**CAT No** : ALL-ACA-1334

**CAS No** : 73486-81-4

**Molecular Formula** : C<sub>10</sub>H<sub>9</sub>BrClN<sub>5</sub>O

**Molecular Weight** : 330.6



### Analytical Information

<b>Batch No.</b>	: ALL-ACA-1334	<b>HPLC Purity</b>	: 99.67%
<b>Solubility</b>	: Methanol / EP Diluent	<b>Potency</b>	: 98.09 %
<b>Appearance of Product</b>	: Off White Solid	<b>Mass</b>	: Confirm
<b>Long Term Storage</b>	: 2-8 °C	<b>IR Analysis</b>	: Confirm
<b>Weight Loss By TGA</b>	: 1.314%	<b><sup>1</sup>HNMR</b>	: Confirm
<b>Residue Of Ignition</b>	: 0.262%		

### Additional Information

%Potency = [100 - ( Weight Loss By TGA % + Residue Of Ignition %) × Chromatographic Purity%]/100 =  
 [100 - (1.314+0.262) × 98.00]/100 = 98.09 %

**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