

# CERTIFICATE OF ANALYSIS

(Certificate No. KMI017089-01)

Release Date: 21/08/2024

Re-test Date: 20/08/2027

## N-Nitroso Ibrutinib Impurity 2

### Identification

**Chemical Name :**

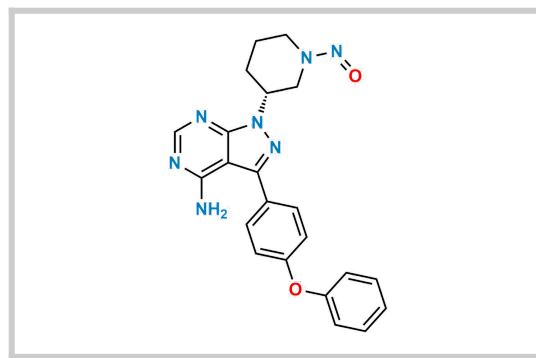
(R)-1-(1-Nitrosopiperidin-3-yl)-3-(4-phenoxyphenyl)-1H-pyrazolo[3,4-d]pyrimidin-4-amine

**CAT No.** : KMI017089

**CAS No.** : Not Available

**Molecular Formula** : C<sub>22</sub>H<sub>21</sub>N<sub>7</sub>O<sub>2</sub>

**Molecular Weight** : 415.5



### Analytical Information

**Batch No.** : IBR-IMP-2-NO-073-346

**Description** : Off White Solid

**HPLC Purity** : 99.77 %

**Weight Loss By TGA** : 0.22 %

**% Potency** : 99.55 %

**Solubility** : ACN : Methanol (1:1)

**Mass** : Confirm

**IR** : Confirm

**<sup>1</sup>H NMR** : Confirm

### Additional Information

**Long Term Storage** : Store at 2-8 deg. C for long term storage

**Shipping Condition** : Product is stable to be Shipped at Room Temperature

**% Potency** = [100 - 0.22(Weight Loss By TGA)] x [99.77(HPLC Purity)]/100 = 99.55 %

**Recommendation** : Released

	Department	Name	Signature	Date
<b>Prepared By</b>	Analytical	Jignesh Patel		21/08/2024
<b>Reviewed &amp; Approved By</b>	Quality Control	Jatin Patel		21/08/2024

**Attachments** : COA, HPLC, MASS, <sup>1</sup>H NMR, IR and TGA