

# **CERTIFICATE OF ANALYSIS**

(Certificate No. KMB001081-01)

**Release Date:** 26/12/2024

**Re-test Date:** 25/12/2027

## **Brexpiprazole Nitroso Impurity 1**

### **Identification**

**Chemical Name :**

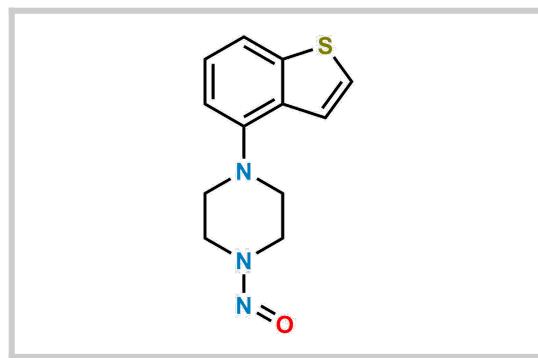
1-(Benzo[b]thiophen-4-yl)-4-nitrosopiperazine

**CAT No.** : KMB001081

**CAS No.** : 2639426-95-0

**Molecular Formula** : C<sub>12</sub>H<sub>13</sub>N<sub>3</sub>OS

**Molecular Weight** : 247.3



### **Analytical Information**

**Batch No.** : B001081-091-102

**Description** : Light Yellow Solid

**HPLC Purity** : 99.71 %

**Weight Loss By TGA** : 0.25 %

**% Potency** : 99.46 %

**Solubility** : Acetonitrile

**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 - 0.25(Weight Loss By TGA)] x [99.71(HPLC Purity)]/100 = 99.46 %

**Recommendation** : Released

	Department	Name	Signature	Date
Prepared By	Analytical	Parag Patel		26/12/2024
Reviewed & Approved By	Quality Control	Jatin Patel		26/12/2024

**Attachments** : COA, HPLC, MASS, <sup>1</sup>HNMR, <sup>13</sup>CNMR, IR and TGA