# CERTIFICATE OF ANALYSIS

(Certificate No. KMB001080-01)

**Release Date:** 16/12/2024 **Re-test Date:** 15/12/2027

## Brexpiprazole N-Oxide

## Identification

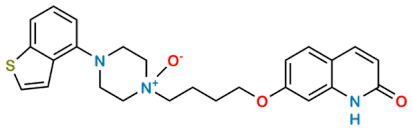
**Chemical Name** :
4-(Benzo[b]thiophen-4-yl)-1-(4-((2-oxo-1,2-dihydroquinolin-7-yl)oxy)butyl)piperazine 1-oxide

**CAT No.** : KMB001080

**CAS No.** : 1191900-58-9

**Molecular Formula** : C25H27N3O3S

**Molecular Weight** : 449.6



## Analytical Information

| | | | |
|---|---|---|---|
| **Batch No.** | : B001080-091-085 | **Solubility** | : Methanol |
| **Description** | : Off White Solid | **Mass** | : Confirm |
| **HPLC Purity** | : 99.81 % | **IR** | : Confirm |
| **Weight Loss By TGA** | : 2.32 % | **1H NMR** | : Confirm |
| **% Potency** | : 97.49 % | | |

## 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 - 2.32(Weight Loss By TGA)] x [99.81(HPLC Purity)]/100 = 97.49 %

**Recommendation** : Released

| | Department | Name | Signature | Date |
|---|---|---|---|---|
| **Prepared By** | Analytical | Jignesh Patel | | 17/12/2024 |
| **Reviewed & Approved By** | Quality Control | Jatin Patel | | 17/12/2024 |

**Attachments** : COA, HPLC, MASS, 1HNMR, IR and TGA