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## CERTIFICATE OF ANALYSIS

Analysis Date: Oct 2025

Re-test Date: Sep 2028

**Product Name: Brexpiprazole impurity 15**

### Identification:

Chemical Name: 7-[4-[4-(Benzothiophen-4-yl)piperazin-1-yl]butoxy]-3,4-dihydro-1H-quinolin-2-one

Synonyms : NA

CAS Number : 913612-07-4

CAT Number : CP-B15002

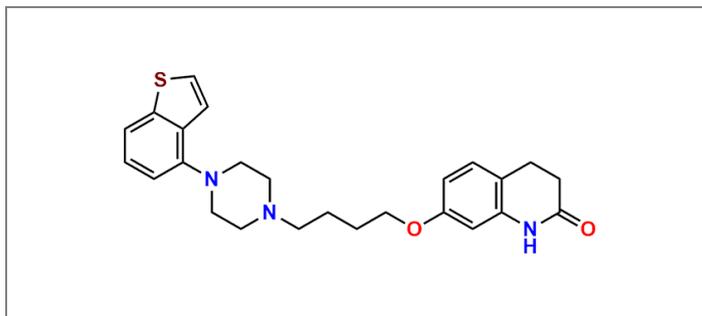
Molecular Formula : C<sub>25</sub>H<sub>29</sub>N<sub>3</sub>O<sub>2</sub>S

Molecular Weight : 435.59

Batch Number : CP-BRE-15-1025

Storage Condition : Tightly closed, Inert atmosphere at 2 to 8° C

Shipping condition : All Products are stable to be shipped at room temperature, if specific condition required it is mention in the COA



### Analytical Information:

Sr. No.	Test	Result
1)	Description	White to off white solid
2)	Solubility	Soluble in Methanol/DMSO
3)	MASS By LCMS	Confirm to structure
4)	Purity By HPLC	99.30%
5)	<sup>1</sup> H NMR	Confirm to structure
6)	IR	Confirm to Structure
7)	Weight loss by TGA	0.308%
8)	Potency by TGA	98.99%



### Prepared and Reviewed By

Ms Priyanka Salunkhe  
(Quality Control)

### Approved By

Ms Rohini Gagare  
(Quality Assurance)

Note: Product supplied by Chemicea are for R&D purpose only and not for human consumptions.