

## Certificate of Analysis

**Catalogue Number**

KL-02-00338

**Lot Number**

KLAH00153

**Product Name**

Brexpiprazole Impurity 22

**Synonyms**

1-(Benzo[b]thiophen-4-yl)piperazine hydrochloride

**CAS Number**

913614-18-3

**Molecular Formula**
 $C_{12}H_{14}N_2S \cdot HCl$ 
**Molecular Weight**

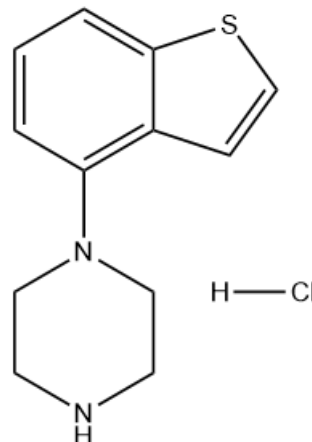
218.3 : 36.5 g/mol

**Mfg. Date**

09-09-2025

**Re-Test Date**

08-09-2028

**Structure**

**Shipping Condition**

All Product are stable to be shipped at room temperature, unless otherwise specified.

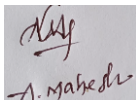
**Long Term Storage Conditions**

2°C ~ 8°C Protected from light and Sealed

**Analytical Information**

Test	Specifications	Results
Appearance	pale beige solid	pale beige solid
Solubility	Soluble in Chloroform, Methanol	Conforms
Purity by HPLC	Not less than 90.00%	99.92%
Identification by $^1H$ NMR	Conforms to structure	Complies
Identification by Mass	Conforms Molecular Weight	Complies
Identification by IR	Conform functional groups	Complies
Weight Content By TGA	Not specified	0.236%
Residue of Ignition By TGA	Not specified	0.000%
Potency	Not specified	99.68%

Prepared by



Reviewed &amp; Approved by



Note: Use for research &amp; analytical purpose only. Not for human consumption

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