

# Certificate of Analysis

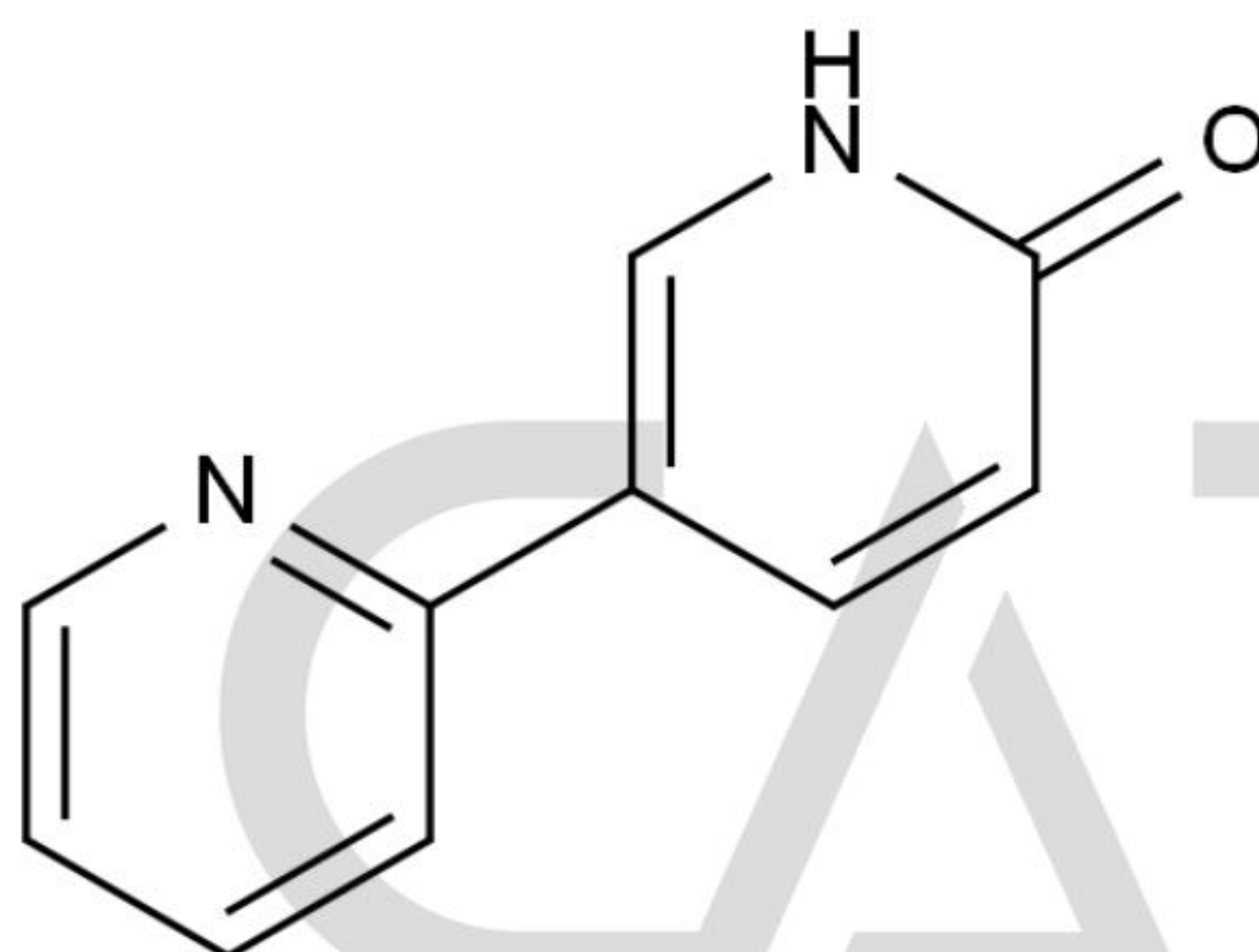
## Reference Material & Standard

|                           |                                                 |                            |                                           |
|---------------------------|-------------------------------------------------|----------------------------|-------------------------------------------|
| <b>Product Name:</b>      | Perampanel Impurity 16                          | <b>Catalogue Number:</b>   | C4X-243016                                |
| <b>Synonyms:</b>          | 5-(2-Pyridyl)-1,2-dihydropyridin-2-one          | <b>Lot Number:</b>         | 0719-RH-0074                              |
| <b>CAS Number:</b>        | 381233-78-9                                     | <b>Expiry Date:</b>        | Jul 20, 2030                              |
| <b>Molecular Formula:</b> | C <sub>10</sub> H <sub>8</sub> N <sub>2</sub> O | <b>Storage:</b>            | 2°C ~ 8°C Protected from light and Sealed |
| <b>Molecular Weight:</b>  | 172.18                                          | <b>Shipping Condition:</b> | Shipping at Room Temperature              |

**Warning:**



**Chemical Structure:**



| Test Items     | Method            | Results            |
|----------------|-------------------|--------------------|
| Appearance     | Visual inspection | Light Yellow Solid |
| Identification | LCMS&HNMR         | Confirmed          |
| Purity         | HPLC              | 99.934%            |
| Loss on Drying | TGA               | 0.1363%            |
| Assay          |                   | 99.8%              |

## Comment:

The calculation of the mass balance method follows the formula (calculated on the non-dried basis):

Assay (%) = (100% - Loss on Drying) \* Purity HPLC (%) / 100%

Loss on Drying is considered as absolute effect, HPLC purity is considered as relative effect.

**Signature:**

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Reviewed by:

*Koi*

Approved by General Manager:

*David*

Date: Jul 21, 2026

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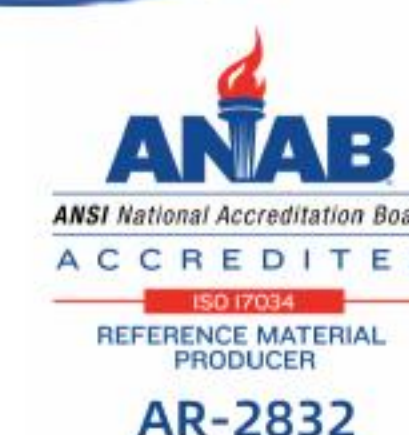
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