CATO Research Chemicals Inc.

Make the Tests More Accurate

ISO 17034 : 2016 | ISO 9001 : 2015

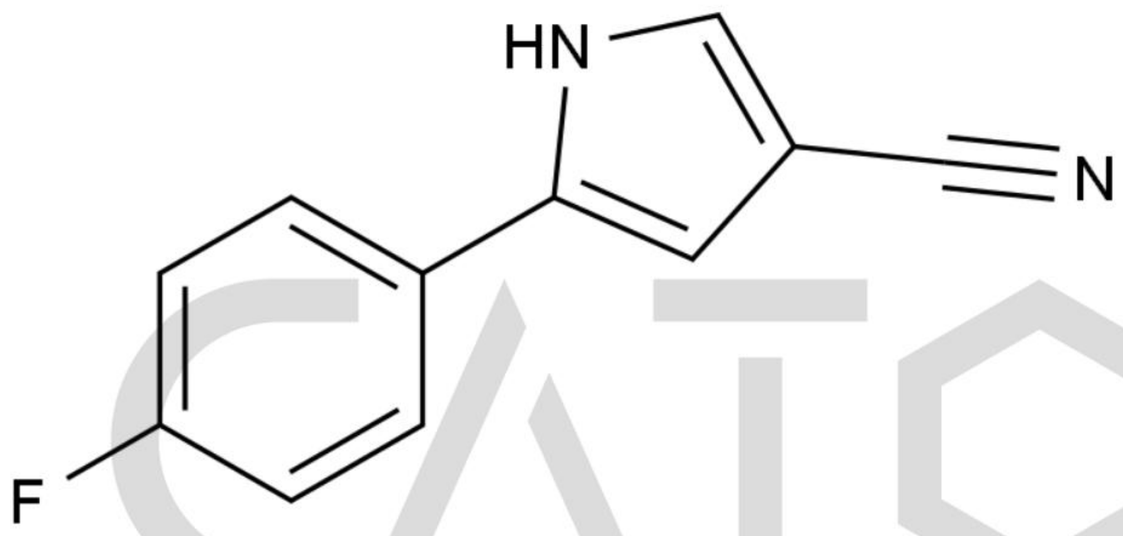
**No.: 202512050186**

# Certificate of Analysis

## Reference Material & Standard

| | | | |
|---|---|---|---|
| **Product Name:** | Vonoprazan Impurity 51 | **Catalogue Number:** | C4X-102051 |
| **Synonyms:** | N/A | **Lot Number:** | 0829-RG-0067 |
| **CAS Number:** | 1240949-51-2 | **Expiry Date:** | Dec 04, 2029 |
| **Molecular Formula:** | $C_{11}H_7FN_2$ | **Storage:** | 2°C ~ 8°C Protected from light and Sealed |
| **Molecular Weight:** | 186.19 | **Shipping Condition:** | Shipping at Room Temperature |

**Chemical Structure:**




| Test Items | Method | Results |
|---|---|---|
| **Appearance** | Visual inspection | Orange Solid |
| **Identification** | LCMS&HNMR | Confirmed |
| **Purity** | HPLC | 92.774% |
| **Loss On Drying** | TGA | 0.4579% |
| **Assay** | | 92.3% |

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## 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:**

Prepared by: Koi Date: Dec 05, 2025

Reviewed by: Lisa Date: Dec 08, 2025

Approved by General Manager: David Date: Dec 08, 2025

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