# Certificate of Analysis

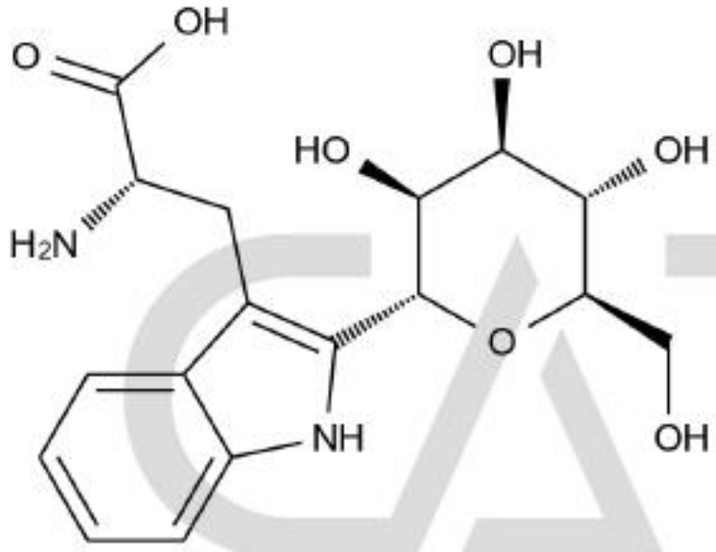
## Reference Material & Standard

| | | | |
|---|---|---|---|
| **Product Name:** | Tryptophan Impurity 15 | **Catalogue Number:** | C1402010 |
| **Synonyms:** | N/A | **Lot Number:** | 0716-SA-7065 |
| **CAS Number:** | 180509-18-6 | **Expiry Date:** | Jul 15, 29 |
| **Molecular Formula:** | $C_{17}H_{22}N_2O_7$ | **Storage:** | 2°C ~ 8°C Protected from light and Sealed |
| **Molecular Weight:** | 366.37 | | |

**Warning:**



**Chemical Structure:**




| Test Items | Method | Results |
|---|---|---|
| **Appearance** | Visual inspection | Solid |
| **Identification:** | LC&HNMR | Confirmed |
| **Purity:** | HPLC | 98.833% |

CATO Research Chemicals Inc.

**Signature:**

Prepared by: Lisa Date: Jul 16, 25

Reviewed by: Yuki Date: Jul 16, 25

Approved by General Manager: David Date: Jul 16, 25

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## Directions:

*1. Intended use: This product is suitable for identification and quantification of the analyte(s), instrument calibration, method development and quality control in analytical and R&D applications. It is not intended for administration to humans or animals, and shall not be used to diagnose, treat or cure any diseases.*

*2. Minimum sample size: 1mg is recommended as the minimum sample size.*

*3. Metrological traceability: This product meets the requirements of ISO 17034 and is traceable to NMI through an unbroken chain of comparisons.*

*4. Instructions for handling and correct use: Handling in a well-ventilated place.*

## Document Version:

| Revision No. | Date | Reason for Revision |
|---|---|---|
| 01 | Jul 16, 25 | First release. |

CATO Research Chemicals Inc.