

Certificate of Analysis

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Product Name: 1-Methyl-D-tryptophan

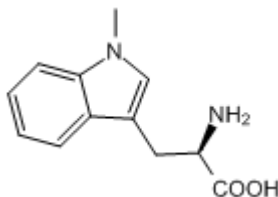
Catalog No.: 5698

Batch No.: 1

CAS Number: 110117-83-4

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₂H₁₄N₂O₂·0.1H₂O
Batch Molecular Weight: 220.05
Physical Appearance: White solid
Solubility: water to 5 mM with gentle warming
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 97.1% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	65.5	6.5	12.73
Found	65.5	6.6	12.62

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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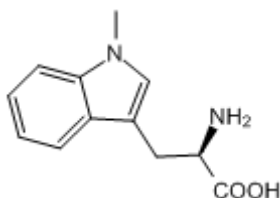
Description:

Indoleamine 2,3-dioxygenase (IDO) inhibitor ($IC_{50} = 7 \mu M$); disrupts tryptophan catabolism. Enhances the antitumor and antiviral immunoresponses of CD8⁺ T-cells in vitro. Reduces tumor volume in mice with xenografts overexpressing IDO.

Physical and Chemical Properties:Batch Molecular Formula: $C_{12}H_{14}N_2O_2 \cdot 0.1H_2O$

Batch Molecular Weight: 220.05

Physical Appearance: White solid

Minimum Purity: >97%**Batch Molecular Structure:****References:**

Rytelewski et al (2014) Suppression of immunodominant antitumor and antiviral CD8⁺ T cell responses by indoleamine 2,3-dioxygenase. *PLoS One* **9** e90439. PMID: 24587363.

Nakamura et al (2015) Effects of indoleamine 2,3-dioxygenase inhibitor in non-Hodgkin lymphoma model mice. *Int.J.Hematol.* **102** 327. PMID: 26243621.

Storage: Store at -20°C**Solubility & Usage Info:**

water to 5 mM with gentle warming

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

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