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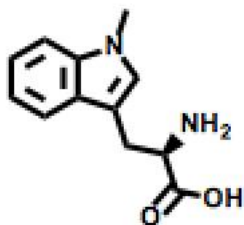
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IDO Inhibitor – 1-methyl-D-tryptophan (D-1MT)

Chemical Name: 1-methyl-D-tryptophan



Molecular Weight:	218.25
Formula:	C ₁₂ H ₁₄ N ₂ O ₂
Purity:	≥98%
CAS#:	110117-83-4
Solubility:	Water up to 5 mM (warming)
Storage	Powder: 4 °C 1 year Water: 4 °C 3 months -20 °C 1 year

Biological Activity:

1-methyl-D-tryptophan (D-1MT) is a potent and selective indoleamine 2,3-dioxygenase (IDO) inhibitor with IC₅₀ ~7 μM. It disrupts tryptophan catabolism and enhances the antitumor and antiviral immunoresponses of CD8⁺ T-cells in vitro. It can reduce tumor volume in mice with xenografts overexpressing IDO.

How to Use:

In vitro: D-1MT was used at 10-50 μM final concentration in various in vitro assays.

In vivo: D-1MT was dosed at 5 mg/Kg orally to mice bearing A20 B-cell lymphoma.

Reference:

1. Rytelwski M, et al. Suppression of immunodominant antitumor and antiviral CD8⁺ T cell responses by indoleamine 2,3-dioxygenase. (2014) PLoS One. 9(2):e90439.
2. Nakamura N, et al. Effects of indoleamine 2,3-dioxygenase inhibitor in non-Hodgkin lymphoma model mice. (2015) Int J Hematol. 102(3):327-34.

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