## 1-Isopropyltryptophan

Cat. No.:	HY-154387	\
CAS No.:	1219485-46-7	$\succ$
Molecular Formula:	C <sub>14</sub> H <sub>18</sub> N <sub>2</sub> O <sub>2</sub>	N N
Molecular Weight:	246.3	
Target:	Indoleamine 2,3-Dioxygenase (IDO)	$\mathbb{N}$
Pathway:	Metabolic Enzyme/Protease	
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.	ОН

BIOLOGICAL ACTIVITY				
Description	1-Isopropyltryptophan (1-IsoPT) is a IDO1 inhibitor. 1-Isopropyltryptophan decreases the expression of IFN-γ stimulated ID0- 1 and ID0-2 mRNA <sup>[1]</sup> .			
IC <sub>50</sub> & Target	ID01			
In Vitro	1-Isopropyltryptophan (24 h) shows cytotoxicity for mouse DC 2.4 lines with an IC <sub>50</sub> value of 2.156 mM <sup>[1]</sup> . 1-Isopropyltryptophan (100 μM; 48 h) decreases the expression of IFN-γ (0.5 μg/ml) stimulated IDO-1 and IDO-2 mRNA in DC 2.4 cells <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only. RT-PCR <sup>[1]</sup>			
	Cell Line:	DC 2.4 cells		
	Concentration:	100 μΜ		
	Incubation Time:	48 h		
	Result:	Decreased the ID0-1 and ID0-2 mRNA expression in IFN- $\gamma$ (0.5 lg/ml) treated DCs.		

## REFERENCES

[1]. Sun T, et al. Novel 1-alkyl-tryptophan derivatives downregulate IDO1 and IDO2 mRNA expression induced by interferon-gamma in dendritic cells. Mol Cell Biochem. 2010 Sep;342(1-2):29-34.

Caution: Product has not been fully validated for medical applications. For research use only.

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## **Product** Data Sheet

