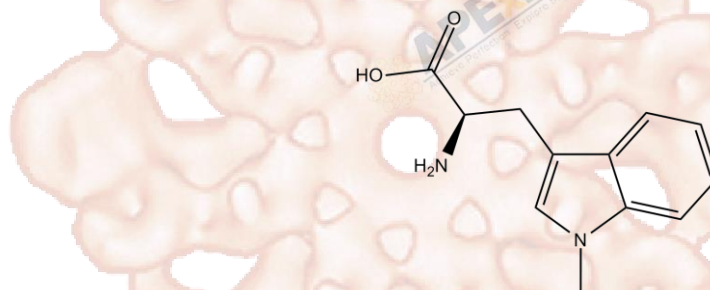


Product Data Sheet

Indoximod (NLG-8189)

Cat. No.:	B4900
CAS No.:	110117-83-4
Formula:	C ₁₂ H ₁₄ N ₂ O ₂
M.Wt:	218.25
Synonyms:	
Target:	Metabolism
Pathway:	IDO
Storage:	Store at -20°C



Solvent & Solubility

In Vitro

 insoluble in DMSO; insoluble in EtOH; ≥ 1.12 mg/mL in H₂O with gentle warming and ultrasonic

Preparing Stock Solutions	Mass		1mg	5mg	10mg
	Solvent	Concentration			
		1 mM	4.5819 mL	22.9095 mL	45.8190 mL
		5 mM	0.9164 mL	4.5819 mL	9.1638 mL
		10 mM	0.4582 mL	2.2910 mL	4.5819 mL

Please refer to the solubility information to select the appropriate solvent.

Biological Activity

Shortsummary

Indoleamine 2,3-dioxygenase (IDO) pathway inhibitor

 IC₅₀ & Target

In Vitro

Cell Viability Assay

Cell Line: Treg cells

Preparation method: The solubility of this compound in DMSO is limited. General tips for obtaining a higher concentration: Please warm the tube at 37 °C for 10 minutes and/or shake it in the ultrasonic bath for a while. Stock solution can be stored below -20 °C for several months.

Reacting conditions: 0.05 mM

	Applications:	Indoximod significantly inhibited the differentiation of Treg cells, especially that of IL-10+ Treg cells, whilst showed no effect on TGF- β 1+ Treg cells. Treg cells co-cultured with Indoximod-pretreated ESCs exhibited less suppressive function. The results indicated that indoleamine 2,3-dioxygenase-1 (IDO1) was involved in the differentiation and suppressive function of Treg cells in endometriosis.
In Vivo	Animal experiment	
	Animal models:	Mice bearing 4T1 tumors
	Dosage form:	400 mg/kg; p.o.; b.i.d., 5 times a week
	Applications:	In mice bearing 4T1 tumors, DL-Indoximod in combination with Cyclophosphamide enhanced antitumor immunity. In addition, the drug combination induced a marked decrease in tumor size. Compared with the combination of L-Indoximod and Cyclophosphamide, D-Indoximod combined with Cyclophosphamide significantly prolonged the survival period.
	Other notes:	Please test the solubility of all compounds indoor, and the actual solubility may slightly differ with the theoretical value. This is caused by an experimental system error and it is normal.

Product Citations

See more customer validations on www.apexbt.com.

References

- [1]. Wei C, Mei J, Tang L, Liu Y, Li D, Li M, Zhu X. 1-Methyl-tryptophan attenuates regulatory T cells differentiation due to the inhibition of estrogen-IDO1-MRC2 axis in endometriosis. *Cell Death Dis.* 2016 Dec 1;7(12):e2489.
- [2]. Hou DY, Muller AJ, Sharma MD, DuHadaway J, Banerjee T, Johnson M, Mellor AL, Prendergast GC, Munn DH. Inhibition of indoleamine 2,3-dioxygenase in dendritic cells by stereoisomers of 1-methyl-tryptophan correlates with antitumor responses. *Cancer Res.* 2007 Jan 15;67(2):792-801.

Caution

FOR RESEARCH PURPOSES ONLY.

NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

Specific storage and handling information for each product is indicated on the product datasheet. Most APExBIO products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Shortterm storage of many products are stable in the short-term at temperatures that differ from that required for long-term storage. We ensure that the product is shipped under conditions that will maintain the quality of the reagents. Upon receipt

of the product, follow the storage recommendations on the product data sheet.



APExBIO Technology

www.apexbt.com

7505 Fannin street, Suite 410, Houston, TX 77054.

Tel: +1-832-696-8203 | Fax: +1-832-641-3177 | Email: info@apexbt.com

