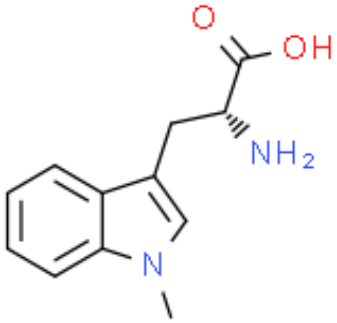
Product Data Sheet

Cas No.:	110117-83-4	Cat. No:	PL04654
Product Name:	Indoximod		
Product synonym:	1-甲基-D-色氨酸;1-甲基-D-色氨酸;1-甲基-D-L-色胺酸;1-甲基色氨酸,;吲哚莫德;1-METHYL-D-TRYPTOPHAN1-甲基-D-色氨酸		
Chemical name:	Indoximod		
MF:	C12H14N2O2	FW:	218.2518
Purity:	≥99%	Batch No.:	-
Storage:			
Structural formula:			
λmax：	-	Formulation：	-
Solubility :			
SMILES :	O([H])C([C@@](H])(C([H])([H])C1=C([H])N(C([H])([H])[H])C2=C([H])C([H])=C([H])C([H])=C12)N([H])[H])=O		
InChI Code:	-		
InChI Key:			
WARNING This product is not for human or veterinary use.			

Product Description

Indoximod (1-Methyl-D-tryptophan) 是一种具有口服活性的吲哚胺2,3-双加氧酶(IDO) 途径抑制剂。Indoximod 充当Trp模拟物，调节mTOR中。Indoximod 是一种可用于癌症研究的免疫代谢佐剂。

生物活性	Indoximod (1-Methyl-D-tryptophan) is an orally active indoleamine 2,3-dioxygenase (IDO) pathway inhibitor. Indoximod acts as a Trp mimetic in regulating mTOR. Indoximod is an immunometabolic adjuvant used for the research of cancer.
IC50 & Target[1][2]	IDO 19 μM (Ki)
体外研究(In Vitro)	The IDO inhibitor 1-methyl-tryptophan exists in two stereoisomers with potentially different biological properties. The L isomer is the more potent inhibitor of IDO activity using the purified enzyme and in HeLa cell–based assays. However, the D isomer is significantly more effective in reversing the suppression of T cells created by IDO-expressing dendritic cells. The L isomer of 1-methyl-tryptophan functioned as a competitive inhibitor (Ki=19 μM), whereas the d isomer is much less effective. The DL mixture is intermediate, with a Ki of 35 μM. has not independently confirmed the accuracy of these methods. They are for reference only.

体内研究(In Vivo)	The D isomer is more efficacious as an anticancer agent in chemo-immunotherapy regimens using NSC-26271, NSC 125973, or LY 188011, when tested in mouse models of transplantable melanoma and transplantable and autochthonous breast cancer. The D isomer of 1-methyl-tryptophan specifically targets the IDO gene because the antitumor effect of d-1-methyl-tryptophan is completely lost in mice with a disruption of the IDO gene (IDO-knockout mice). Oral administration of dl-1-methyl-tryptophan in combination with NSC 125973 can elicit regression of autochthonous breast tumors. has not independently confirmed the accuracy of these methods. They are for reference only.
包装储存	Powder -20°C 3 years； 4°C 2 years
溶解度数据	In Vitro: H_2O : 5 mg/mL (22.91 mM; ultrasonic and adjust pH to 2 with HCl)DMSO : 0.55 mg/mL (2.52 mM; Need ultrasonic and warming)配制储备