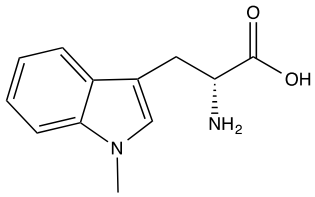
Catalog # 10-4569

Indoximod

CAS# 110117-83-4

1-Methyl-D-tryptophan

Lot # FBA2173



Indoximod is a modulator of indoleamine 2,3-dioxygenase (IDO) activity.1 IDO can be used by tumors to avoid elimination by the host immune response[2,3], thus inhibition of IDO is an interesting cancer therapeutic option. Indoximod is not a direct inhibitor of IDO, but instead targets the IDO gene leading to downstream effects.[3] IDO-mediated catabolism of tryptophan inhibits the immunoregulatory kinases mTOR and PKC5. This is relieved by Indoximod acting as a potent tryptophan mimetic restoring mTOR and PKC signaling.[4]

1) Hou *et al.* (2007), *Inhibition of indoleamine 2,3-dioxygenase in dendritic cells by stereoisomers of 1-methyl-tryptophan correlates with antitumor responses;* Cancer Res. **67** 792
2) Soliman *et al.* (2010), *Indoleamine 2,3-dioxygenase: is it an immune suppressor?*; Cancer J. **16** 354
3) Friberg *et al*. (2002), *Indoleamine 2,3-dioxygenase contributes to tumor cell evasion of T-cell mediated rejection*; Int.J.Cancer **101** 151
4) Metz *et al*. (2012), *IDO inhibits a tryptophan sufficiency signal that stimulates mTOR*; Oncoimmunol. **1** 1460

PHYSICAL DATA

Molecular Weight:	218.25
Molecular Formula:	$C_{12}H_{14}N_2O_2$
Purity:	>98%
	NMR: (Conforms)
Solubility:	Soluble in DMSO (>25 mg/ml)
Physical Description:	White solid
Storage and Stability:	Store as supplied at -20º for up to 1 year from the date of purchase. Store solutions at -20ºC for up to 1 month.

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