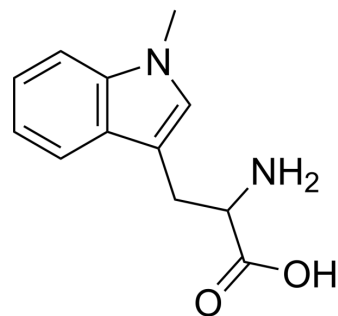


(Rac)-Indoximod

Cat. No.:	HY-133897
CAS No.:	26988-72-7
Molecular Formula:	C ₁₂ H ₁₄ N ₂ O ₂
Molecular Weight:	218.25
Target:	Indoleamine 2,3-Dioxygenase (IDO); Apoptosis
Pathway:	Metabolic Enzyme/Protease; Apoptosis
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro

0.1 M NaOH : 10 mg/mL (45.82 mM; Need ultrasonic)
DMSO : 4.76 mg/mL (21.81 mM; ultrasonic and warming and adjust pH to 4 with HCl and heat to 60°C)

Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
		Concentration	1 mg	5 mg	10 mg
	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

Description

(Rac)-Indoximod (1-Methyl-DL-tryptophan) is an indoleamine 2,3-dioxygenase (IDO) inhibitor. Co-treatment with IFN- γ and (Rac)-Indoximod markedly reduces the activity of human cardiac myofibroblasts (hCMs) expressing α -SMA and induces apoptosis through up-regulating the IRF-1, Fas, and FasL genes^[1].

IC₅₀ & Target

IDO

In Vitro

(Rac)-Indoximod (1-Methyl-DL-tryptophan; 0.5 mM; 3 days) inhibits tryptophan depletion, thereby partially reversing the growth-inhibitory activity of IFN- γ , but eventually induces cell death regardless of tryptophan depletion^[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Cell Viability Assay^[1]

Cell Line:	Human cardiac myofibroblasts (hCMs)
Concentration:	0.5 mM
Incubation Time:	3 days

Result:

Growth retardation by IFN- γ was partially reversed on day 2, but cell viability was further reduced on day 3.

CUSTOMER VALIDATION

- Research Square Preprint. 2023 May 22.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Jun-Won Lee, et al. Co-treatment with interferon- γ and 1-methyl tryptophan ameliorates cardiac fibrosis through cardiac myofibroblasts apoptosis. Mol Cell Biochem. 2019 Aug;458(1-2):197-205.

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

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