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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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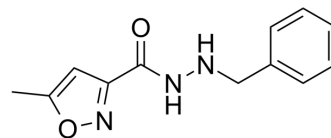
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Isocarboxazid

Cat. No.:	HY-13929
CAS No.:	59-63-2
Molecular Formula:	C ₁₂ H ₁₃ N ₃ O ₂
Molecular Weight:	231.25
Target:	Monoamine Oxidase
Pathway:	Neuronal Signaling
Storage:	Powder -20°C 3 years In solvent -80°C 6 months -20°C 1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (432.43 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
		1 mM		4.3243 mL	21.6216 mL	43.2432 mL
		5 mM		0.8649 mL	4.3243 mL	8.6486 mL
		10 mM		0.4324 mL	2.1622 mL	4.3243 mL
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (10.81 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (10.81 mM); Clear solution					
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil					
	Solubility: ≥ 2.5 mg/mL (10.81 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	Isocarboxazid is a non-selective and irreversible inhibitor of monoamine oxidase, with an IC ₅₀ of 4.8 μM for rat brain monoamine oxidase in vitro ^[1] .
IC ₅₀ & Target	IC ₅₀ : 4.8 μM (rat brain monoamine oxidase) ^[1] .
In Vivo	Isocarboxazid (1, 3 mg/kg, i.p., 60 min) pretreatment in mice shows the significant increased number of head twitches at 15 and 30 min after 5-HTP ^[2] . Isocarboxazid (1, 3 mg/kg, i.p., 60 min) treatment in mice together with 5-HTP administration causes 43% 5-HT

concentration increased and 22% of 5-HIAA decreased compared to brain concentrations in mice given 5-HTP alone^[2]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	Twelve male mice of dd strain (20-25 g) ^[2]
Dosage:	0, 0.3, 1, 3 mg/kg
Administration:	Intraperitoneally 60 min before intravenous injection of 5-HTP
Result:	The number of head twitches at 15 and 30 min after 5-HTP was increased. 43% 5-HT concentration increased and 22% of 5-HIAA decreased.

CUSTOMER VALIDATION

- Research Square Preprint. 2022 Feb.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. MAXWELL DR, et al. Relative activity of some inhibitors of mono-amine oxidase in potentiating the action of tryptamine in vitro and in vivo. Br J Pharmacol Chemother. 1961 Dec;17:310-20.

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

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