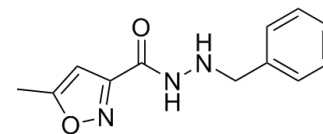


Isocarboxazid

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



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] .	
IC₅₀ & 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] .	
	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.	

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.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA