

## Product Data Sheet

Product Name: Isocarboxazid

Cat. No.: GC31104

### Chemical Properties

Cas. No. 59-63-2

SMILES O=C(C1=NOC(C)=C1)NNCC2=CC=CC=C2

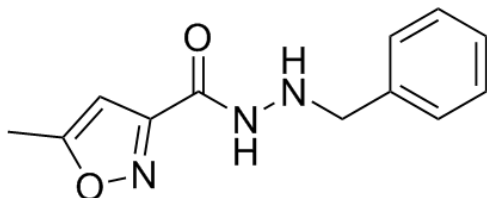
Formula  $C_{12}H_{13}N_3O_2$  M.Wt 231.25

Solubility DMSO : 100 mg/mL (432.43 mM; Need ultrasonic) Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure



### Background

Isocarboxazid is a non-selective and irreversible inhibitor of monoamine oxidase, with an IC<sub>50</sub> of 4.8 μM for rat brain monoamine oxidase in vitro[1].

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

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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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.

[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.

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