Iproniazid

Cat. No.: HY-B0886A

CAS No.: 54-92-2

Molecular Formula: $C_9H_{13}N_3O$

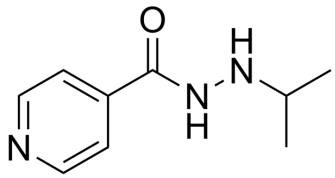
Molecular Weight: 179.22

Target: Monoamine Oxidase

Pathway: Neuronal Signaling

Storage: -20°C, stored under nitrogen

* In solvent : -80°C, 6 months; -20°C, 1 month (stored under nitrogen)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (557.97 mM; Need ultrasonic)

H_2O : ≥ 100 mg/mL (557.97 mM)

* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	5.5797 mL	27.8987 mL	55.7973 mL
5 mM	1.1159 mL	5.5797 mL	11.1595 mL
10 mM	0.5580 mL	2.7899 mL	5.5797 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 (13.95 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (13.95 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (13.95 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Iproniazid is a non-selective, irreversible monoamine oxidase (MAO) inhibitor of the hydrazine class. Iproniazid has antidepressive activity[1].

CUSTOMER VALIDATION

- Nat Commun. 2023 Oct 21;14(1):6682.
- Biotechnol Bioeng. 2021 Sep 3.

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REFERENCES

[1]. Fagervall I, et al. Inhibition of monoamine oxidase in monoaminergic neurones in the rat brain by irreversible inhibitors. Biochemical pharmacology 35 (8): 1381–1387

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