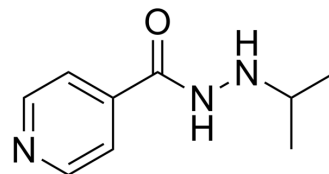


## Iproniazid

Cat. No.:	HY-B0886A
CAS No.:	54-92-2
Molecular Formula:	C <sub>9</sub> H <sub>13</sub> N <sub>3</sub> O
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<sub>2</sub>O : ≥ 100 mg/mL (557.97 mM)  
 \* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent Concentration	Mass		
		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

- 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
- 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
- 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<sup>[1]</sup>.

### CUSTOMER VALIDATION

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

See more customer validations on [www.MedChemExpress.com](http://www.MedChemExpress.com)

## REFERENCES

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

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