



LKT Laboratories, Inc.

## Isoniazid

Phone: 888-558-5227  
651-644-8424  
Fax: 888-558-7329  
Email: [getinfo@lktlabs.com](mailto:getinfo@lktlabs.com)  
Web: [lktlabs.com](http://lktlabs.com)

### Product Information

**Product ID** I7341

**CAS No.** 54-85-3

**Chemical Name** 4-Pyridinecarboxylic acid, hydrazide

**Synonym** Isonicotinoylhydrazine, Rimitsid, Tubazid, Cotinazin, Dinacrin, Ditubin, Hycozid.

**Formula** C<sub>6</sub>H<sub>7</sub>N<sub>3</sub>O

**Formula Wt.** 137.14

**Melting Point** 170-173 °C

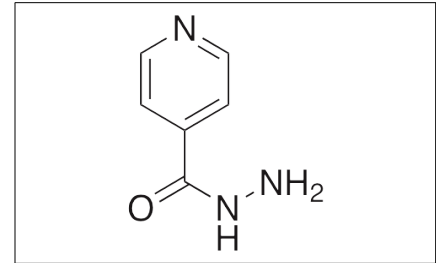
**Purity** ≥98%

**Solubility** Soluble in water (125 mg/mL, DMSO, methanol and ethanol (20 mg/mL).

**Store Temp** Ambient

**Ship Temp** Ambient

**Description** Isoniazid is an antibacterial compound that displays efficacy against *Mycobacterium* and is clinically used to treat tuberculosis. Isoniazid inhibits InhA, an NADH-dependent enoyl-coA reductase.



**Bulk quantities available upon request**

Product ID	Size
I7341	5 g
I7341	50 g
I7341	100 g

**References** Bernardes-Génisson V, Deraeve C, Chollet A, et al. Isoniazid: an update on the multiple mechanisms for a singular action. *Curr Med Chem.* 2013;20(35):4370-85. PMID: 23931278.

Argyrou A, Vetting MW, Blanchard JS. New insight into the mechanism of action of and resistance to isoniazid: interaction of *Mycobacterium tuberculosis* enoyl-ACP reductase with INH-NADP. *J Am Chem Soc.* 2007 Aug 8;129(31):9582-3. PMID: 17636923.

Oliveira JS, Vasconcelos IB, Moreira IS, et al. Enoyl reductases as targets for the development of anti-tubercular and anti-malarial agents. *Curr Drug Targets.* 2007 Mar;8(3):399-411. PMID: 17348833.

**Caution:** This product is intended for laboratory and research use only. It is not for human or drug use.