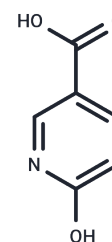


6-Hydroxynicotinic acid

Chemical Properties

CAS No. :	5006-66-6
Formula:	C ₆ H ₅ NO ₃
Molecular Weight:	139.11
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	6-Hydroxynicotinic acid (6-Hydroxypyridine-3-carboxylic acid) is exploited in the use of NMR spectroscopy or gas chromatography--mass spectrometry for the diagnosis of Pseudomonas aeruginosa in urinary tract infection. Among the common bacteria causing urinary infection, only P. aeruginosa produces 6-hydroxynicotinic acid from nicotinic acid.
Targets(IC50)	Endogenous Metabolite,Antibacterial

Solubility Information

Solubility	DMSO: 50 mg/mL (359.43 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 1 mg/mL (7.19 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	7.1886 mL	35.9428 mL	71.8856 mL
5 mM	1.4377 mL	7.1886 mL	14.3771 mL
10 mM	0.7189 mL	3.5943 mL	7.1886 mL
50 mM	0.1438 mL	0.7189 mL	1.4377 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Shiraishi S, et al. Availability of 6-hydroxynicotinic acid for rapid identification of *Pseudomonas aeruginosa* and *Serratia marcescens*. *J Chromatogr.* 1985 Feb 27;338(1):51-9.

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481