

## Imidazole-5-propionic acid

## Chemical Properties

CAS No. :	1074-59-5
Formula:	C <sub>6</sub> H <sub>8</sub> N <sub>2</sub> O <sub>2</sub>
Molecular Weight:	140.14
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	Imidazole-5-propionic acid (Imidazolylpropionic acid) is a product of histidine metabolism and may involve oxidation or transamination. Imidazole-5-propionic acid is potent inhibitors of G. candidum histidinol dehydrogenase, showing IC <sub>50</sub> values as low as 3.17 microM.
Targets(IC <sub>50</sub> )	Endogenous Metabolite,Dehydrogenase

## Solubility Information

Solubility	DMSO: 1.41 mg/mL (10.06 mM),Sonication is recommended. H <sub>2</sub> O: 72.86 mg/mL (519.91 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	7.1357 mL	35.6786 mL	71.3572 mL
5 mM	1.4271 mL	7.1357 mL	14.2714 mL
10 mM	0.7136 mL	3.5679 mL	7.1357 mL
50 mM	0.1427 mL	0.7136 mL	1.4271 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

Pahwa S, Kaur S, Jain R, Roy N. Structure based design of novel inhibitors for histidinol dehydrogenase from Geotrichum candidum. Bioorg Med Chem Lett. 2010 Jul 1;20(13):3972-6.

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