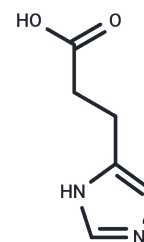


Imidazole-5-propionic acid

Chemical Properties

CAS No. :	1074-59-5
Formula:	C ₆ H ₈ N ₂ O ₂
Molecular Weight:	140.14
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



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 ₅₀ values as low as 3.17 micromM.
Targets(IC ₅₀)	Dehydrogenase

Solubility Information

Solubility	DMSO: 1.4 mg/mL (10 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.

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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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