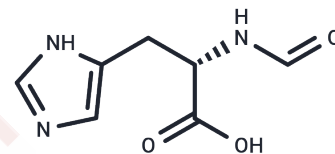


## N-Formyl-L-histidine

## Chemical Properties

CAS No. :	15191-21-6
Formula:	C7H9N3O3
Molecular Weight:	183.16
Storage:	Keep away from moisture, Store under nitrogen 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	N-Formyl-L-histidine is a competitive inhibitor of L-histidine deaminase ( $K_i = 4.26 \text{ mM}$ ) and also binds to histidine-tRNA synthetase ( $K_i = 4.6 \text{ }\mu\text{M}$ ).
Targets(IC50)	Amino Acids and Derivatives

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	5.4597 mL	27.2985 mL	54.5971 mL
5 mM	1.0919 mL	5.4597 mL	10.9194 mL
10 mM	0.546 mL	2.7299 mL	5.4597 mL
50 mM	0.1092 mL	0.546 mL	1.0919 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

Lepore GC, et al. Histidyl-tRNA synthetase from Salmonella typhimurium: specificity in the binding of histidine analogues. Eur J Biochem. 1975 Aug 15;56(2):369-74.

Shibatani T, et al. Crystalline L-histidine ammonia-lyase of Achromobacter liquidum. Crystallization and enzymic properties. Eur J Biochem. 1975 Jun 16;55(1):263-9.

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