
Product Data Sheet

Product Name: N-Formyl-L-histidine

Cat. No.: GC67329

Chemical Properties

Cas. No. 15191-21-6

Formula C₇H₉N₃O₃

M.Wt

183.16

Solubility

Storage

Store at -20°C

General tips

For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure **Background**

N-Formyl-L-histidine shows binding affinity to histidyl-tRNA synthetase with a K_i value of 4.6 μ M. N-Formyl-L-histidine shows a competitive inhibition against L-histidine ammonia-lyase, inhibits urocanic acid formation from L-histidine with a K_i value of 4.26 mM^{[1][2]}.

[1]. 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.

[2]. 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.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA