

California Bioscience

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Product Datasheet

Product Name	Recombinant Human Histidyl-tRNA Synthetase
Cata No	CB500447
Source	Escherichia Coli.
Synonyms	Histidyl-tRNA synthetase, EC 6.1.1.21, Histidine-tRNA ligase, HisRS, HRS,
	FLJ20491, JO-1.

Description

Aminoacyl-tRNA synthetases are a class of enzymes that charge tRNAs with their cognate amino acids. The protein encoded by this gene is a cytoplasmic enzyme which belongs to the class II family of aminoacyl-tRNA synthetases. The enzyme is responsible for the synthesis of histidyl-transfer RNA, which is essential for the incorporation of histidine into proteins. The gene is located in a head-to-head orientation with HARSL on chromosome five, where the homologous genes share a bidirectional promoter. The gene product is a frequent target of autoantibodies in the human autoimmune disease polymyositis/dermatomyositis. Histidyl-tRNA Synthetase Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain having a molecular mass of 55 kDa.

The Histidyl-tRNA Synthetase is purified by proprietary chromatographic techniques.

Physical Appearance

Sterile Filtered clear solution.

Purity

Greater than 90.0% as determined by both:(a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE.Protein quantitation was carried out by using 0.25 -

2.0 mg/ml Bradford assay vs. BSA.

Formulation

The protein solution (1.2 mg/ml) contains 150mM NaCl and 10mM sodium phosphate containing 0.1% NaN₃ (pH 7.2).

Stability

Lyophilized Histidyl-tRNA Synthetase although stable at 4°C for 3 weeks, should be stored desiccated below -18°C. Please prevent freeze-thaw cycles.

Application

Strongly reactive with human anti Histidyl-tRNA Synthetase antisera.