



RayBiotech, Inc.

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Certificate of Analysis and Data Sheet

Recombinant Human Histidyl-tRNA Synthetase Sf9

Catalog No.
228-10984

Source:
Sf9 Insect Cells.

Synonyms

Histidyl-tRNA synthetase, EC 6.1.1.21, Histidine-tRNA ligase, HisRS, HRS, FLJ20491, JO-1.

Introduction

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.

Description

Histidyl-tRNA Synthetase Human Recombinant produced in baculovirus is a single, glycosylated, polypeptide chain having a molecular mass of 58.3 kDa. The Histidyl-tRNA Synthetase is fused to 6x His Tag and purified by proprietary chromatographic techniques.

Physical Appearance

Sterile Filtered clear solution.

Formulation

The protein solution contains 20mM HEPES, 250mM sodium chloride 0.1% and 20% Glycerol, (pH 7.5).

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.

Purity

Greater than 90.0% as determined by SDS-PAGE.

**The products are furnished for LABORATORY RESEARCH USE ONLY.
Not for diagnostic or therapeutic use.**



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Protein content

Protein quantitation was carried out by using 0.25 - 2.0 mg/ml Bradford assay vs. BSA.

Western Blotting

Strongly reactive with human anti Histidyl-tRNA Synthetase antisera.

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