



RayBiotech, Inc.

3607 Parkway Lane suite 200
Norcross, GA 30092
Tel: 770-729-2992, 1-888-494-8555
Fax: 770-206-2393
Website: www.raybiotech.com
Email: info@raybiotech.com

Certificate of Analysis and Data Sheet Recombinant Human Histidyl-tRNA Synthetase

Catalog No.
228-10983

Source:
E. Coli

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 HARS1 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 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.

Formulation

The protein solution 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.

Purity

Greater than 90.0% as determined by both

- (a) Analysis by RP-HPLC.
- (b) Analysis by SDS-PAGE.

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



RayBiotech, Inc.

3607 Parkway Lane suite 200
Norcross, GA 30092
Tel: 770-729-2992, 1-888-494-8555
Fax: 770-206-2393
Website: www.raybiotech.com
Email: info@raybiotech.com

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.

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