



Product Datasheet

Product Name	Histidyl-tRNA Synthetase Human Recombinant, Sf9
Cata No	CB500511
Source	<i>Sf9 Insect Cells</i>
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 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.

Purity

Greater than 90.0% as determined by SDS-PAGE.

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.