
Product Data Sheet

Product Name: HARS Human, Sf9

Cat. No.: GP21777

Batch No.: 1

Product Data

Purity	>98%	Source	Sf9 Insect Cells.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Histidyl-tRNA synthetase; EC 6.1.1.21; Histidine-tRNA ligase; HisRS; HRS; FLJ20491; JO-1.		
Formulation	The protein solution contains 20mM HEPES, 250mM sodium chloride 0.1% and 20% Glycerol, (pH 7.5).		

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.

Stability

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

Background

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.

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

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