Product Data Sheet

Product Name:	HARS Human
Cat. No.:	GP21775
Batch No.:	1

Product Data

Purity	>98%	Source	Escherichia Coli.
Phycical 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; HARS.		
Formulation	The protein solution contains 500mM NaCl and 10mM Tris (pH 8.0) and 6M Urea.		

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 E.Coli is a single, non-glycosylated, polypeptide chain having a molecular mass of 55 kDa.

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