Creative Enzymes®

Histidyl-tRNA Synthetase from Human, Recombinant

Cat. No. NATE-0848

Lot. No. (See product label)

Introduction

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

Product Information

Species	Human
Source	E. coli
Appearance	Sterile Filtered clear solution
EC Number	EC 6.1.1.21
CAS No.	9068-78-4
Purity	Greater than 90.0% as determined by both (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.
Buffer	The protein solution contains 150mM NaCl and 10mM sodium phosphate containing 0.1% NaN3 (pH 7.2).

Storage and Shipping Information

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