

## 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% NaN<sub>3</sub> (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.