

Recombinant Full Length Human HARS2 Protein, C-Flag-tagged

Cat. No. HARS2-2177HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human HARS2 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	Aminoacyl-tRNA synthetases are a class of enzymes that charge tRNAs with their cognate amino acids. The protein encoded by this gene is an enzyme belonging to the class II family of aminoacyl-tRNA synthetases. Functioning in the synthesis of histidyl-transfer RNA, the enzyme plays an accessory role in the regulation of protein biosynthesis. The gene is located in a head-to-head orientation with HARS on chromosome five, where the homologous genes likely share a bidirectional promoter. Mutations in this gene are associated with the pathogenesis of Perrault syndrome, which involves ovarian dysgenesis and sensorineural hearing loss. Alternative splicing results in multiple transcript variants of this gene.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	53.3 kDa
AA Sequence	MPLLGLLPRAWASLLSQLLRPPCASCTGAVRCQSQVAEAVLTSQKHAHQEKPNFII KTPKGTRDLSPQH MVVREKILDLVISCFKRHGAKGMDTPAFELKETLTEKYGEDSGL MYDLKDQGGELLRLRYDLTVPFARYL AMNKVKMKRYHVGKVWRRESPTIVQGRY

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REFCQCDFDIAGQFDPMPDAECLKIMCEILSGLQLGDFLI KVNDRRIVDGMFAVCG
VPESKFRAICSSIDKLDKMAWKDVRHEMNVKKGLAPEVADRIGDYVQCHGGVSL VE
QMFQDPRLSQNKQALEGLGDLKLLFEYLTTFGIADKISFDLSLARGLDYYTGVIYEAV
LLQTPTQAGE EPLNVGSVAAGGRYDGLVGMFDPKGHKVPCVGLSIGVERIFYIVEQ
RMKTKGEKVRTTETQVFVATPQKN FLQERLKLIAELWDSGIKAEMLYKNNPKLLTQL
HYCESTGIPLVVIIGEQLKEGVKIRSVASREEVAI KRENFVAEIQRLSES TRTRPL
EQKLISEEDLAANDILDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Pathways	Aminoacyl-tRNA biosynthesis
Full Length	Full L.

GENE INFORMATION

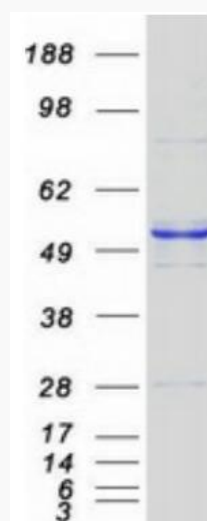
Gene Name	HARS2 histidyl-tRNA synthetase 2, mitochondrial [Homo sapiens (human)]
Official Symbol	HARS2
Synonyms	HO3; HARSL; HARSR; HisRS; PRLTS2

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Gene ID	23438
mRNA Refseq	NM_012208.4
Protein Refseq	NP_036340.1
MIM	600783
UniProt ID	P49590



Coomassie blue staining of purified HARS2 protein.