

Product datasheet for TP304925M

HARS2 (NM_012208) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human histidyl-tRNA synthetase 2, mitochondrial (putative) (HARS2), nuclear gene encoding mitochondrial protein, 100 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC204925 protein sequence Red=Cloning site Green=Tags(s)

MPLLGLLPRRAWASLLSQLLRPPCASCTGAVRCQSQVAEAVLTSQKHAHQEKPNIKTPKGTRDLSPQH
 MVVREKILDLVISCFKRHGAKGMDTPAFELKETLTEKYGEDSGLMYDLKDQGGELSLRYDLTVPFARYL
 AMNKVKKMKRYHVGKVRRESPTIVQGRYREFCQCDFDIAGQFDPMPDAECLKIMCEILSGLQLGDFLI
 KVNDRRIVDGMFAVCGVPESKFRAICSSIDKLDKMAWKDVRHEMVVKGLAPEVADRIGDYVQCHGGVS
 L
 VEQMFQDPRLSQNKQALEGLGDLKLLFEYLTFLGIADKISFDLSLARGLDYYTGVIYEAVLLQTPTQAGE
 EPLNVGSVAAGGRYDGLVGMFDPKGHKVPCVGLSIGVERIFYVEQRMKTGKEKVRTTETQVFVATPQKN
 FLQERLKLIAELWDSGIKAEMLYKNNPKLLTQLHYCESTGIPLVVIIGEQLKEGVKIRSVASREEVAI
 KRENFVAEIQRKLSSES

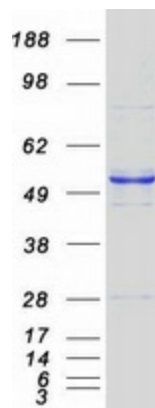
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Predicted MW:	53.3 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.


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Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_036340
Locus ID:	23438
UniProt ID:	P49590
RefSeq Size:	2515
Cytogenetics:	5q31.3
RefSeq ORF:	1518
Synonyms:	HARSL; HARSR; HisRS; HO3; PRLTS2
Summary:	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. [provided by RefSeq, Jul 2013]
Protein Pathways:	Aminoacyl-tRNA biosynthesis

Product images:



Coomassie blue staining of purified HARS2 protein (Cat# [TP304925]). The protein was produced from HEK293T cells transfected with HARS2 cDNA clone (Cat# [RC204925]) using MegaTran 2.0 (Cat# [TT210002]).