

Recombinant Full Length Human AARS Protein, GST-tagged

Cat. No. AARS-757HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human AARS full-length ORF (NP_001596.2, 1 a.a. - 968 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	968 amino acids
Description	The human alanyl-tRNA synthetase (AARS) belongs to a family of tRNA synthases, of the class II enzymes. Class II tRNA synthases evolved early in evolution and are highly conserved. This is reflected by the fact that 498 of the 968-residue polypeptide human AARS shares 41% identity with the E.coli protein. tRNA synthases are the enzymes that interpret the RNA code and attach specific amino acids to the tRNAs that contain the cognate trinucleotide anticodons. They consist of a catalytic domain which interacts with the amino acid acceptor-T psi C helix of the tRNA, and a second domain which interacts with the rest of the tRNA structure. [provided by RefSeq, Jul 2008]
Molecular Mass	133.2 kDa
AA Sequence	MDSTLTASEI RQRFIDFFKR NEHTYVHSSA TIPLDDPTLL FANAGMNQFK PIFLNTIDPS HPMAKLSRAA NTQKCIRAGG KHNDLDDVGK DVYHHTFFEM LGSWSFGDYF KELACKMALE LLTQEFGIPI ERLYVTYFGG DEAAGLEADL ECKQIWQNLG LDDTKILPGN MKDNFWEMGD TGPCGPCSEI HYDRIGGRDA

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AHLVNQDDPN VLEIWNLVFI QYNREADGIL KPLPKKSIDT GMGLERLVS
 LQNKMSNYDT DLFVPYFEAI QKGTGARPYT GKVGAEDADG IDMAYRVLAD
 HARTITVALA DGGRPDNTGR GYVLRRLRR AVRYAHEKLN ASRGFFATLV
 DVVVQSLGDA FPELKDPDM VKDIINEEV QFLKTLRGR RILDRKIQSL
 GDSKTIPGDT AWLLYDTYGF PVDLTGLIAE EKGLVVDMDG FEEERKLAQL
 KSQKGAGGE DLIMLDIYAI EELRARGLEV TDDSPKYNH LDSSGSYVFE
 NTVATVMALR REKMFVEEVS TGQECGVLD KTCFYAEQGG QIYDEGYLVK
 VDDSSDKTE FTVKNAQVRG GYVLHIGTIY GDLKVGQVW LFIDEPRRRP
 IMSNHTATHI LNFALRSVLG EADQKGSVA PDRLRFDFTA KGAMSTQQIK
 KAEIENEMI EAAKAVYTQD CPLAAAKAIQ GLRAVFDETY PDPVRVVSIG
 VPVSELLDDP SGPAGSLTSV EFCGGTHLRN SSHAGAFVIV TEEAIAKGIR
 RIVAVTGAEA QKALRKAESL KKCLSVMEAK VKAQTAPNKD VQREIADLGE
 ALATAVIPQW QKDELRETLK SLKKVMDDLD RASKADVQKR VLEKTKQFID
 SNPNQPLVIL EMESGASAKA LNEALKLFKM HSPQTSAMLF TVDNEAGKIT
 CLCQVPQNAA NRGLKASEWV QQVSGLMDGK GGGKDVSAQA TGKNVGCLQE
 ALQLATSFAQ LRLGDVKN

Applications

Enzyme-linked Immunoabsorbent Assay
 Western Blot (Recombinant protein)
 Antibody Production
 Protein Array

Storage

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION
Gene Name

[AARS alanyl-tRNA synthetase \[Homo sapiens \]](#)

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Official Symbol	AARS
Synonyms	AARS; alanyl-tRNA synthetase; alanine--tRNA ligase, cytoplasmic; alanine tRNA ligase 1; cytoplasmic; alaRS; renal carcinoma antigen NY-REN-42; alanine tRNA ligase 1, cytoplasmic; alanyl-tRNA synthetase, cytoplasmic; CMT2N
Gene ID	16
mRNA Refseq	NM_001605
Protein Refseq	NP_001596
MIM	601065
UniProt ID	P49588

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