

Recombinant Human WARS Protein (2-471 aa), His-Myc-tagged

Cat. No. WARS-2410H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human WARS Protein (2-471 aa) is produced by Yeast expression system. This protein is fused with a 6xHis tag at the N-terminal and a Myc tag at the C-terminal. Research Area: Epigenetics and Nuclear Signaling. Protein Description: Full Length of Mature Protein.
Species	Human
Source	Yeast
ProteinLength	2-471 aa
Description	Isoform 1, isoform 2 and T1-TrpRS have aminoacylation activity while T2-TrpRS lacks it. Isoform 2, T1-TrpRS and T2-TrpRS possess angiostatic activity whereas isoform 1 lacks it. T2-TrpRS inhibits fluid shear stress-activated responses of endothelial cells. Regulates ERK, Akt, and eNOS activation pathways that are associated with angiogenesis, cytoskeletal reorganization and shear stress-responsive gene expression.
Form	Tris-based buffer,50% glycerol
Molecular Mass	56.5 kDa
AA Sequence	PNSEPASLLELFNSIATQGELVRS LKAGNASKDEIDSAVKMLVSLKMSYKAAAGEDY KADCPPGNPAPTSNHGPDATEAEEDFVDPWTVQTSSAKGIDYDKLIVRFGSSKIDKE LINRIERATGQRPHHFLRRGIFFSHRDMNQVLDAYENKKPFYLYTGRGPSSEAMHV

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GHLIPFIFTKWLQDVFNVPLVIQMTDDEKYLWKDLTLDQAYSAYAVENAKDIIACGFDIN
KTFIFSDLDYMGMSGFYKNVVKIQKHVTFNQVKGIFGFTDSDCIGKISFPAIQAAPSF
SNSFPQIFRDRTDIQCLIPCAIDQDPYFRMTRDVAPRIGYPKPALLHSTFFPALQGAQ
TKMSASDPNSSIFLTD TAKQIKTKV NKHAFSGGRDTIEEHRQFGGNCDDVDSFMYLT
FFLEDDDKLEQIRKDYTSGAMLTGELKKALIEVLQPLIAEHQARRKEVTDEIVKEFMTP
RKLSFDFQ

Purity > 85% as determined by SDS-PAGE.

Notes Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week.

Storage The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20 centigrade/-80 centigrade. The shelf life of lyophilized form is 12 months at -20 centigrade/-80 centigrade.

Concentration A hardcopy of COA will be sent along with the products. Please refer to it for detailed information.

GENE INFORMATION

Gene Name [WARS tryptophanyl-tRNA synthetase \[Homo sapiens \]](#)

Official Symbol [WARS](#)

Synonyms WARS; tryptophanyl-tRNA synthetase; IFI53; IFP53; tryptophan tRNA ligase 1; cytoplasmic; hWRS; trpRS; GAMMA-2;

Gene ID [7453](#)

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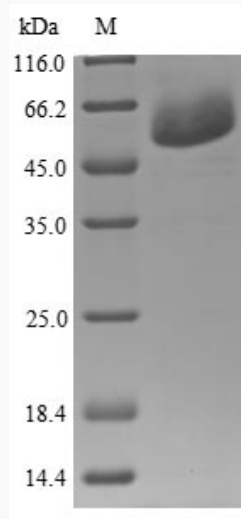
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mRNA Refseq	NM_004184
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Protein Refseq	NP_004175
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MIM	191050
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UniProt ID	P23381
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(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

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