

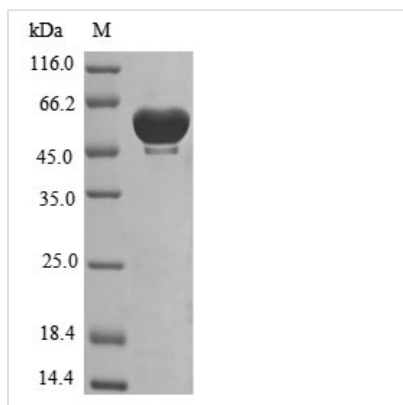


Recombinant Human Tryptophan--tRNA ligase, cytoplasmic (WARS)

Product Code	CSB-EP025965HU
Relevance	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.
Abbreviation	Recombinant Human WARS protein
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°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	P23381
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	Greater than 85% as determined by SDS-PAGE.
Sequence	PNSEPASLLELFNSIATQGELVRSLKAGNASKDEIDSAVKMLVSLKMSYKAAAG EDYKADCPPGNPAPTSNHGPDATEAEEDFVDPWTVQTSSAKGIDYDKLIVRF GSSKIDKELINRIERATGQRPHHFLRRGIFFSHRDMNQVLDAYENKKPFYLYTG RGPSEAMHVGHLIPFIFTKWLQDVFNVPLVIQMTDDEKYLWKDLTLDQAYSY AVENAKDIIACGFDINKTFIFSDLDYMGMSGFYKNVVKIQKHVTFNQVKGIFGF TSDDCIGKISFPAIQAAPSFNSFPQIFRDRTDIQCLIPCAIDQDPYFRMTRDVA PRIGYPKALLHSTFFPALQGAQTKMSASDPNSSIFLTDATAKQIKTKVKNHAFS GGRDTIEEHRQFGGNCDDVDSFMYLTFLEDDDKLEQIRKDYTSGAMLTGELK KALIEVLQPLIAEHQARRKEVTDEIVKEFMTPRKLSFDFQ
Research Area	Epigenetics and Nuclear Signaling
Source	E.coli
Target Names	WARS
Protein Names	Interferon-induced protein 53 Tryptophanyl-tRNA synthetase IFI53, WRS
Expression Region	2-471aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 10xHis-tagged and C-terminal Myc-tagged
Mol. Weight	60.0 kDa
Protein Length	Full Length of Mature Protein



Image



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

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°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.