Recombinant Human Tryptophan--tRNA ligase, mitochondrial (WARS2)

Product Code	CSB-YP880081HU
Abbreviation	WARS2
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.	Q9UGM6
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	≥85% (SDS-PAGE)
Sequence	LH KGSAAAPALQ KDSKKRVFSG IQPTGILHLG NYLGAIESWV RLQDEYDSVL YSIVDLHSIT VPQDPAVLRQ SILDMTAVLL ACGINPEKSI LFQQSQVSEH TQLSWILSCM VRLPRLQHLH QWKAKTTKQK HDGTVGLLTY PVLQAADILL YKSTHVPVGE DQVQHMELVQ DLAQGFNKKY GEFFPVPESI LTSMKKVKSL RDPSAKMSKS DPDKLATVRI TDSPEEIVQK FRKAVTDFTS EVTYDPAGRA GVSNIVAVHA AVTGLSVEEV VRRSAGMNTA RYKLAVADAV IEKFAPIKRE IEKLKLDKDH LEKVLQIGSA KAKELAYTVC QEVKKLVGFL
Source	Yeast
Target Names	WARS2
Protein Names	Recommended name: Tryptophan--tRNA ligase, mitochondrial EC= 6.1.1.2 Alternative name(s): (Mt)TrpRS Tryptophanyl-tRNA synthetase Short name= TrpRS
Expression Region	19-360
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	Tag type will be determined during the manufacturing process.
Protein Length	Full Length of Mature Protein
Target Details	Aminoacyl-tRNA synthetases catalyze the aminoacylation of tRNA by their cognate amino acid. Because of their central role in linking amino acids with nucleotide triplets contained in tRNAs, aminoacyl-tRNA synthetases are thought to be among the first proteins that appeared in evolution. Two forms of tryptophanyl-tRNA synthetase exist, a cytoplasmic form, named WARS, and a mitochondrial form, named WARS2. This gene encodes the mitochondrial tryptophanyl-tRNA synthetase. Two alternative transcripts encoding different isoforms have been described.
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.