



Recombinant Human Threonine--tRNA ligase, cytoplasmic (TARS)

Product Code	CSB-EP023131HU
Storage	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
Uniprot No.	P26639
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	>85% (SDS-PAGE)
Sequence	<p>MFEEKASSPS GKMGGEKPI GAGEEKQKEG GKKNKEGSG DGGRAELNPW PEIYTRLEM YNILKAEHDS ILAEKAEKDS KPIKVTLPDG KQVDAESWKT TPYQIACGIS QGLADNTVIA KVNNVWDLR RPLEEDCTLE LLKFEDEEAQ AVYWHSSAHI MGEAMERVY GCLCYGPIE NGFYYDMYLE EGGVSSNDFS SLEALCKKII KEKQAFERLE VKKETLLAMF KYNKFKCRIL NEKVNTPTTT VYRCGPLIDL CRGPHVRHTG KIKALKIHK N SSTYWEGKAD METLQRIYGI SFPDPKMLKE WEKFQEEAKN RDHRKIGRDQ ELYFFHELSP GSCFFLPKGA YIYNALIEFI RSEYRKRGFQ EVVTPNIFNS RLWMTSGHWQ HYSENMFSE VEKELFALPK MNCPGHCLMF DHRPRSWREL PLRLADFGVL HRNELSGALT GLTRVRRFQQ DDAHIFCAME QIEDEIKGCL DFLRTVYSVF GFSFKLNLST RPEKFLGDIE VWDQAEKQLE NSLNEFGEKW ELNSGDGAFY GPKIDIQIKD AIGRYHQCAT IQLDFQLPIR FNLTYSVSHDG DDKKRPVIVH RAILGSVERM IAILTENYGG KWPFWLSRQ VMVVPVGPTC DEYAQKVRQQ FHDAKFMADI DLDPGCTLNK KIRNAQLAQY NFILVVGEKE KISGTVNIRT RDNKVHGERT ISETIERLQQ LKEFRSKQAE EEF</p>
Source	E.coli
Target Names	TARS
Protein Names	Recommended name: Threonine--tRNA ligase, cytoplasmic EC= 6.1.1.3 Alternative name(s): Threonyl-tRNA synthetase Short name= ThrRS
Expression Region	1-723
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 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. Threonyl-tRNA synthetase belongs to the class-II aminoacyl-tRNA synthetase family
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.