



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

<b>Product Code</b>	CSB-MP023131HU
<b>Storage</b>	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
<b>Uniprot No.</b>	P26639
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Purity</b>	>85% (SDS-PAGE)
<b>Sequence</b>	<p>MFEEKASSPS GKMGGEEKPI GAGEEKQKEG GKKNKEGSG  DGGRAELNPW PEYIYTRLEM YNILKAEHDS ILAEKAEKDS KPIKVTLPDG  KQVDAESWKT TPYQIACGIS QGLADNTVIA KVNNVWDLR RPLEEDCTLE  LLKFEDEEAQ AVYWHSSAHI MGEAMERVY GCLCYGPPIE NGFYYDMYLE  EGGVSSNDFS SLEALCKKII KEKQAFERLE VKKETLLAMF KYNKFKCRIL  NEKVNTPTTT VYRCGPLIDL CRGPHVRHTG KIKALKIHKNS 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>
<b>Source</b>	Mammalian cell
<b>Target Names</b>	TARS
<b>Protein Names</b>	Recommended name: Threonine--tRNA ligase, cytoplasmic EC= 6.1.1.3 Alternative name(s): Threonyl-tRNA synthetase Short name= ThrRS
<b>Expression Region</b>	1-723
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	Tag type will be determined during the manufacturing process.
<b>Protein Length</b>	Full length protein
<b>Target Details</b>	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
<b>Reconstitution</b>	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.

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**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.