

## 32-2839: TARS Recombinant Protein

**Alternative Name :** Threonine--tRNA ligase,cytoplasmic,Threonyl-tRNA synthetase,ThrRS,TARS.

### Description

Source : Escherichia Coli. TARS Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 743 amino acids (1-723) and having a molecular mass of 85.6kDa.TARS is fused to a 20 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques. Threonyl-tRNA synthetase, cytoplasmic (TARS) is a member of the class-II aminoacyl-tRNA synthetase family. The main role of TARS is in tRNA aminoacylation. The N-terminal domain of the TARS enzyme is responsible for the competition with the ribosome whereas the catalytic and the C-terminal domain are involved in binding the 2 anticodon arm-like structures in the operator.

### Product Info

<b>Amount :</b>	10 µg
<b>Purification :</b>	Greater than 90.0% as determined by SDS-PAGE.
<b>Content :</b>	The TARS solution (0.5mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 2mM DTT, 20% glycerol and 150mM NaCl.
<b>Storage condition :</b>	Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Avoid multiple freeze-thaw cycles.
<b>Amino Acid :</b>	MGSSHHHHHH SSGLVPRGSH MFEEKASSPS GKMGEEKPI GAGEEKQKEG GKKNKEGSG DGGRAELNPW PEIYTRLEM YNILKAEHDS ILAEKAEKDS KPIKVTLPDG KQVDAESWKT TPYQIACGIS QGLADNTVIA KVNNVVWDLR RPLEEDCTLE LLKFEDEEAQ AVYWHSSAHI MGEAMERVY GCLCYGPPIE NGFYDMYLE EGGVSSNDFS SLEALCKKII KEKQAFERLE VKKETLLAMF KYNKFKCRIL NEKVNTPTTT VYRCGPLIDL CRGPHVRHTG KIKALKIHK N SSTYWEGKAD METLQRIYGI SFPDPKMLKE WEKFQEEAKN RDHRKIGRDQ ELYFFHELSPGSCFFLPKGA YIYNALIEFI RSEYRKRGFQ EVVTPNIFNS RLWMTSGHWQ HYSENMFSFE VEKELFALKP MNCPGHCLMF DHRPRSWREL PLRLADFGVL HRNELSGALT GLTRVRRFQQ DDAHIFCAME QIEDEIKGCL DFLRTVYSVF GFSFKLNLST RPEKFLGDIE VWDQAEKQLE NSLNEFGEKW ELNSGDGAFY GPKIDIQIKD AIGRYHQCAT IQLDFQLPIR FNLTYSVSHDG DDKRPVIVH RAILGSVERM IAILTENYGG KWPFWLSPRQ VMVVPVGPTC DEYAQKVRQQ FHDAKFMADI DLDPGCTLNK KIRNAQLAQY NFILVVEKE KISGTVNIRT RDNKVHGERT ISETIERLQQ LKEFRSKQAE EEF.

