

## 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

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|----------------------------|--|
| <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>        | MGSSHHHHH SSGLVPRGSH MFEEKASSPS GKMGEEKPI GAGEEKQKEG GKKNKEGSG<br>DGGRAELNPW PEIYTRLEM YNILKAEHDS ILAEKAEKDS KPIKVTLPDG KQVDAESWKT TPYQIACGIS<br>QGLADNTVIA KVNNVVWDLR RPLEEDCTLE LLKFEDEEAQ AVYWHSSAHI MGEAMERVY GCLCYGPPIE<br>NGFYDMYLE EGGVSSNDFS SLEALCKKII KEKQAFERLE VKKETLLAMF KYNKFKCRIL NEKVNTPTTT<br>VYRCGPLIDL CRGPHVRHTG KIKALKIHK N SSTYWEGKAD METLQRIYGI SFPDPKMLKE WEKFQEEAKN<br>RDHRKIGRDQ ELYFFHELSPGSCFFLPKGA YIYNALIEFI RSEYRKRGFQ EVVTPNIFNS RLWMTSGHWQ<br>HYSENMFSE VEKELFALKP MNCPGHCLMF DHRPRSWREL PLRLADFGVL HRNELSGALT GLTRVRRFQQ<br>DDAHIFCAME QIEDEIKGCL DFLRTVYSVF GFSFKLNLST RPEKFLGDIE VWDQAEKQLE NSLNEFGEKW<br>ELNSGDGAFY GPKIDIQIKD AIGRYHQCAT IQLDFQLPIR FNLTYSVSHDG DDKRPVIVH RAILGSVERM<br>IAILTENYGG KWPFWLSPRQ VMVVPVGPTC DEYAQKVRQQ FHDAKFMADI DLDPGCTLNK KIRNAQLAQY<br>NFILVGEKE KISGTVNIRT RDNKVHGERT ISETIERLQQ LKEFRSKQAE EEF. |