

TARS, 1-723aa, Human, His tag, E.coli

Cat.NO.: TP04148

3th Edition

Synonyms:threonyl-tRNA synthetase, cytoplasmic, ThrRS

Description:TARS (Threonyl-tRNA synthetase, cytoplasmic) belongs to the class-II aminoacyl-tRNA synthetase family. This protein has its main role in tRNA aminoacylation. The N-terminal domain of the enzyme is responsible for the competition with the ribosome whilst the catalytic and the C-terminal domain are involved in binding the two anticodon arm-like structures in the operator. Recombinant human TARS protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.

Form:Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 2mM DTT, 20% glycerol, 150mM NaCl

Molecular Weight:85.6kDa (743aa)

Sequences:

Purity:> 95% by HPLC

Concentration:0.5mg/ml (determined by Bradford assay)

Endotoxin Level:<1.0 EU per 1 ug of protein (determined by LAL method)

Storage:Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.