

Recombinant human YARS protein

Catalog Number: ATGP1055

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-528aa

UniProt No.

P54577

NCBI Accession No.

NP_003671.1

Alternative Names

Tyrosyl-tRNA synthetase, CMTDIC, TYRRS, YRS, YTS

PRODUCT SPECIFICATION

Molecular Weight

61.3 kDa (548aa)

Concentration

1mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 10% glycerol, 0.1M NaCl

Purity

> 90% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

Tyrosyl-tRNA synthetase, also known as YARS, belongs to the class I tRNA synthetase family. YARS is essential enzyme that catalyze the aminoacylation of tRNATrp with tryptophan, an essential function of the cell's protein synthesis machinery. Expression of YARS is highly stimulated in human cells by the addition of IFN-gamma. Recombinant human YARS protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

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Amino acid Sequence

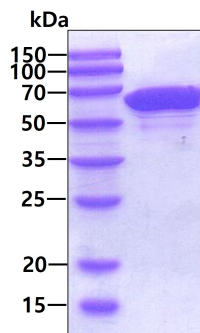
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SKMSSEEEES KIDLLDRKED VKKKLKAFC EPGNVENNGV LSFIKHVLFP LKSEFVILRD EKWGGNKTYT AYVDLEKDFA
AEVVHPGDLK NSVEVALNKL LDPIREKFNT PALKKLASAA YPDPSKQKPM AKGPAKNSEP EEVIPSRLDI RVGKIITVEK
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SAPGEHVFVK GYEKGQPDEE LKPKKKVFEK LQADFKISEE CIAQWKQTNF MTKLGSISCK SLKGGNIS

General References

Kise Y., et al. (2004) Nat Struct Mol Biol. 11:149-156.
Wakasugi K., et al. (2002) Proc Natl Acad Sci . 99:173-177.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.