

Recombinant Human EPRS protein, His & T7-tagged

Cat. No. EPRS-8223H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human EPRS aa. (Asp749~Thr956 (Accession # P07814)) fused with N-terminal His & T7 tag was produced in E. coli cells.
Species	Human
Source	E.coli
ProteinLength	Asp749~Thr956
Description	Aminoacyl-tRNA synthetases are a class of enzymes that charge tRNAs with their cognate amino acids. The protein encoded by this gene is a multifunctional aminoacyl-tRNA synthetase that catalyzes the aminoacylation of glutamic acid and proline tRNA species. Alternative splicing has been observed for this gene, but the full-length nature and biological validity of the variant have not been determined.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 26.4kDa.
Endotoxin	<1.0EU per 1ug (determined by the LAL method)
Purity	>90%
Characteristic	The isoelectric point is 8.7.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Applications	SDS-PAGE; WB; ELISA; IP.
Stability	The thermal stability is described by the loss rate of the target protein. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. (Referring from China Biological Products Standard, which was calculated by the Arrhenius equation.) The loss of this protein is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Storage Buffer	Supplied as lyophilized form in 20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% sarcosyl, 5% trehalose, and preservative.
Reconstitution	Reconstitute in sterile ddH ₂ O.
GENE INFORMATION	
Gene Name	EPRS glutamyl-prolyl-tRNA synthetase [Homo sapiens (human)]
Official Symbol	EPRS
Synonyms	EPRS; glutamyl-prolyl-tRNA synthetase; EARS; PARS; QARS; QPRS; PIG32; GLUPRORS; bifunctional glutamate/proline--tRNA ligase; bifunctional aminoacyl-tRNA synthetase; cell proliferation-inducing gene 32 protein; glutamate tRNA ligase; glutamatyl-prolyl-tRNA synthetase; glutaminyl-tRNA synthetase; proliferation-inducing gene 32 protein; proliferation-inducing protein 32; proline-tRNA ligase; prolyl-tRNA synthetase
Gene ID	2058

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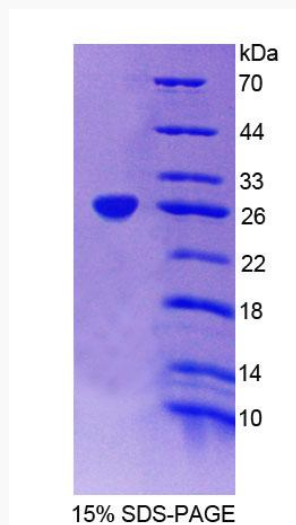
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mRNA Refseq [NM_004446.2](#)

Protein Refseq [NP_004437.2](#)

UniProt ID [P07814](#)

SDS-PAGE



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