

Recombinant Human EPRS, GST-tagged

Cat. No. EPRS-12504H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human EPRS protein, fused to GST-tag, was expressed in E.coli and purified by GSH-sepharose.
Species	Human
Source	E.coli
ProteinLength	C-term-350a.a.
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.
Storage	The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.
Storage Buffer	1M PBS (58mM Na ₂ HPO ₄ , 17mM NaH ₂ PO ₄ , 68mM NaCl, pH8.) added with 100mM GSH and 1% Triton X-100, 15% glycerol.

GENE INFORMATION

Gene Name	EPRS glutamyl-prolyl-tRNA synthetase [Homo sapiens]
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Official Symbol	EPRS
Synonyms	EPRS; glutamyl-prolyl-tRNA synthetase; QARS, QPRS; bifunctional glutamate/proline--tRNA ligase; EARS; GLUPRORS; glutamate tRNA ligase; PARS; proline tRNA ligase; proline-tRNA ligase; prolyl-tRNA synthetase; glutaminyl-tRNA synthetase; proliferation-inducing protein 32; bifunctional aminoacyl-tRNA synthetase; proliferation-inducing gene 32 protein; cell proliferation-inducing gene 32 protein; QARS; QPRS; PIG32; DKFZp313B047;
Gene ID	2058
mRNA Refseq	NM_004446
Protein Refseq	NP_004437
MIM	138295
UniProt ID	P07814
Chromosome Location	1q41
Pathway	Aminoacyl-tRNA biosynthesis, organism-specific biosystem; Aminoacyl-tRNA biosynthesis, conserved biosystem; Aminoacyl-tRNA biosynthesis, eukaryotes, organism-specific biosystem; Aminoacyl-tRNA biosynthesis, eukaryotes, conserved biosystem; Cytosolic tRNA aminoacylation, organism-specific biosystem; Gene Expression, organism-specific biosystem; Metabolic pathways, organism-specific biosystem;
Function	ATP binding; RNA binding; glutamate-tRNA ligase activity; ligase activity; nucleotide binding; proline-tRNA ligase activity; protein binding;

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