EPRS Blocking Peptide – The purity is >90%,tested by HPLC and MS. Purity

PRODUCT OVERVIEW

Product Name	EPRS, Blocking Peptide
Full Product Name	EPRS Blocking Peptide
Product Gene Name	EPRS blocking peptide
Product Synonym Names	Bifunctional aminoacyl tRNA synthetase; Bifunctional aminoacyl-tRNA synthetase; Bifunctional glutamate/proline tRNA ligase; Cell proliferation-inducing gene 32 protein; DKFZp313B047; EARS; Eprs; GLNS; Glu pro tRNA synthetase; GLUPRORS; GluRS; Glutamate tRNA ligase; Glutamatyl prolyl tRNA synthetase; Glutaminyl tRNA synthetase; Glutamyl prolyl tRNA synthetase; Glutamyl tRNA synthetase; Glutamyl-tRNA synthetase; PARS; PIG 32; PIG32; Proliferation inducing gene 32 protein; Proliferation inducing protein 32; Proline tRNA ligase; Proline--tRNA ligase; Prolyl tRNA synthetase; Prolyl-tRNA synthetase; QARS; QPRS; SYEP_HUMAN
Form/Format	Synthetic peptide was lyophilized with 100% acetonitrile and is supplied as a powder. Reconstitute with 0.1 ml DI water for a final concentration of 10 mg/ml.
Purity/Purification	The purity is >90%,tested by HPLC and MS.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C.
Antibody/Peptide Pairs	EPRS peptide (MBS9618715) is used for blocking the activity of EPRS antibody (MBS9610994)
Molecular Weight	170,591 Da
OMIM	CR933648 mRNA
Supply Chain Verification	Manufactured in a lab with traceable raw materials manufactured on site. Coordinated product portfolio of antibodies, pairs, conjugates, recombinant proteins, and immunoassay materials available, please inquire.
Notes	For phospho antibody, we provide phospho peptide (0.5mg) and non-phospho peptide (0.5mg)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for EPRS blocking peptide	Blocking/Control
Related Product Information for EPRS blocking peptide	Blocking peptides are peptides that bind specifically to the target antibody and block antibody binding. These peptide usually contains the epitope recognized by the antibody. Antibodies bound to the blocking peptide no longer bind to the epitope on the target protein. This mechanism is useful when non-specific binding is an issue, for example, in Western blotting (immunoblot) and immunohistochemistry (IHC). By comparing the staining from the blocked antibody versus the antibody alone, one can see which staining is specific; Specific binding will be absent from the western blot or immunostaining performed with the neutralized antibody.
Other Notes	Small volumes of EPRS blocking peptide vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for EPRS purchase	MBS9618715 is a blocking peptide targeting EPRS.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for EPRS. It may not necessarily be applicable to this product.

NCBI GI #	62241042
NCBI GeneID	2058
NCBI Accession #	NP_004437.2

UniProt Primary Accession #	P07814
UniProt Secondary Accession #	Q05BP6; Q05DF8; Q5DSM1; Q5H9S5; Q6PD57; Q86X73; A0AVA9; B9EGH3
UniProt Related Accession #	P07814
GenBank Nucleotide #	NP_004437.2
NCBI Official Full Name	bifunctional glutamate/proline--tRNA ligase
NCBI Official Synonym Full Names	glutamyl-prolyl-tRNA synthetase
NCBI Official Symbol	EPRS
NCBI Official Synonym Symbols	EARS; PARS; QARS; QPRS; PIG32; GLUPRORS
UniProt Protein Name	Bifunctional glutamate/proline--tRNA ligase
UniProt Synonym Protein Names	Bifunctional aminoacyl-tRNA synthetase; Cell proliferation-inducing gene 32 protein; Glutamatyl-prolyl-tRNA synthetaseIncluding the following 2 domains:Glutamate--tRNA ligase (EC:6.1.1.17)Alternative name(s):Glutamyl-tRNA synthetase; GluRS
UniProt Gene Name	EPRS
UniProt Synonym Gene Names	GLNS; PARS; QARS; QPRS; GluRS
NCBI Protein Information	bifunctional glutamate/proline--tRNA ligase
NCBI Summary for EPRS	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. [provided by RefSeq, Jul 2008]
UniProt Comments for EPRS	Catalyzes the attachment of the cognate amino acid to the corresponding tRNA in a two-step reaction: the amino acid is first activated by ATP to form a covalent intermediate with AMP and is then transferred to the acceptor end of the cognate tRNA. Component of the GAIT (gamma interferon-activated inhibitor of translation) complex which mediates interferon-gamma-induced transcript-selective translation inhibition in inflammation processes. Upon interferon-gamma activation and subsequent phosphorylation dissociates from the multisynthetase complex and assembles into the GAIT complex which binds to stem loop-containing GAIT elements in the 3'-UTR of diverse inflammatory mRNAs (such as ceruplasmin) and suppresses their translation.
Research Articles on EPRS	**1.** analysis of the heterotetrameric complex structure of the glutathione transferase (GST) domains shared among the four MSC components, methionyl-tRNA synthetase (MRS), glutaminyl-prolyl-tRNA synthetase (EPRS), AIMP2 and AIMP3
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