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# EPRS Protein (AA 1-1512) (His tag)



### Overview

Quantity:	1 mg
Target:	EPRS
Protein Characteristics:	AA 1-1512
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This EPRS protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA, Crystallization (Crys)

### **Product Details**

Sequence:

MATLSLTVNS GDPPLGALLA VEHVKDDVSI SVEEGKENIL HVSENVIFTD VNSILRYLAR
VATTAGLYGS NLMEHTEIDH WLEFSATKLS SCDSFTSTIN ELNHCLSLRT YLVGNSLSLA
DLCVWATLKG NAAWQEQLKQ KKAPVHVKRW FGFLEAQQAF QSVGTKWDVS TTKARVAPEK
KQDVGKFVEL PGAEMGKVTV RFPPEASGYL HIGHAKAALL NQHYQVNFKG KLIMRFDDTN
PEKEKEDFEK VILEDVAMLH IKPDQFTYTS DHFETIMKYA EKLIQEGKAY VDDTPAEQMK
AEREQRIDSK HRKNPIEKNL QMWEEMKKGS QFGQSCCLRA KIDMSSNNGC MRDPTLYRCK
IQPHPRTGNK YNVYPTYDFA CPIVDSIEGV THALRTTEYH DRDEQFYWII EALGIRKPYI
WEYSRLNLNN TVLSKRKLTW FVNEGLVDGW DDPRFPTVRG VLRRGMTVEG LKQFIAAQGS
SRSVVNMEWD KIWAFNKKVI DPVAPRYVAL LKKEVIPVNV PEAQEEMKEV AKHPKNPEVG
LKPVWYSPKV FIEGADAETF SEGEMVTFIN WGNLNITKIH KNADGKIISL DAKLNLENKD
YKKTTKVTWL AETTHALPIP VICVTYEHLI TKPVLGKDED FKQYVNKNSK HEELMLGDPC
LKDLKKGDII QLQRRGFFIC DQPYEPVSPY SCKEAPCVLI YIPDGHTKEM PTSGSKEKTK

VEATKNETSA PFKERPTPSL NNNCTTSEDS LVLYNRVAVQ GDVVRELKAK KAPKEDVDAA
VKQLLSLKAE YKEKTGQEYK PGNPPAEIGQ NISSNSSASI LESKSLYDEV AAQGEVVRKL
KAEKSPKAKI NEAVECLLSL KAQYKEKTGK EYIPGQPPLS QSSDSSPTRN SEPAGLETPE
AKVLFDKVAS QGEVVRKLKT EKAPKDQVDI AVQELLQLKA QYKSLIGVEY KPVSATGAED
KDKKKKEKEN KSEKQNKPQK QNDGQRKDPS KNQGGGLSSS GAGEGQGPKK QTRLGLEAKK
EENLADWYSQ VITKSEMIEY HDISGCYILR PWAYAIWEAI KDFFDAEIKK LGVENCYFPM
FVSQSALEKE KTHVADFAPE VAWVTRSGKT ELAEPIAIRP TSETVMYPAY AKWVQSHRDL
PIKLNQWCNV VRWEFKHPQP FLRTREFLWQ EGHSAFATME EAAEEVLQIL DLYAQVYEEL
LAIPVVKGRK TEKEKFAGGD YTTTIEAFIS ASGRAIQGGT SHHLGQNFSK MFEIVFEDPK
IPGEKQFAYQ NSWGLTTRTI GVMTMVHGDN MGLVLPPRVA CVQVVIIPCG ITNALSEEDK
EALIAKCNDY RRRLLSVNIR VRADLRDNYS PGWKFNHWEL KGVPIRLEVG PRDMKSCQFV
AVRRDTGEKL TVAENEAETK LQAILEDIQV TLFTRASEDL KTHMVVANTM EDFQKILDSG
KIVQIPFCGE IDCEDWIKKT TARDQDLEPG APSMGAKSLC IPFKPLCELQ PGAKCVCGKN
PAKYYTLFGR SY

Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a special request, please contact us.

### Characteristics:

- Made in Germany from design to production by highly experienced protein experts.
- Human EPRS Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade.
- · State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made to order protein and will be made for the first time for your order. Our experts in the lab will ensure that you receive a correctly folded protein.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

In the unlikely event that the protein cannot be expressed or purified we do not charge anything (other companies might charge you for any performed steps in the expression process for custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression experiments or purification optimization).

When you order this made-to-order protein you will only pay upon receival of the correctly folded protein. With no financial risk on your end you can rest assured that our experienced protein experts will do everything to make sure that you receive the protein you ordered. The concentration of our recombinant proteins is measured using the absorbance at 280nm. The protein's absorbance will be measured in several dilutions and is measured against its specific reference buffer.

## **Product Details**

Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies
Application Details	
UniProt:	P07814
Molecular Weight:	171.5 kDa Including tag.
	ECO:0000269 PubMed:23071094}.
	their translation. {ECO:0000269 PubMed:15479637, ECO:0000269 PubMed:1756734,
	elements in the 3'-UTR of diverse inflammatory mRNAs (such as ceruplasmin) and suppresse
	gamma activation and subsequent phosphorylation dissociates from the multisynthetase complex and assembles into the GAIT complex which binds to stem loop-containing GAIT
	induced transcript-selective translation inhibition in inflammation processes. Upon interferon-
	interferon-activated inhibitor of translation) complex which mediates interferon-gamma-
	is then transferred to the acceptor end of the cognate tRNA. Component of the GAIT (gamma
	reaction: the amino acid is first activated by ATP to form a covalent intermediate with AMP an
Background:	Catalyzes the attachment of the cognate amino acid to the corresponding tRNA in a two-step
Alternative Name:	EPRS (EPRS Products)
Target:	EPRS
Target Details	
Grade:	Crystallography grade
Endotoxin Level:	Protein is endotoxin free.
Sterility:	0.22 μm filtered
Purity:	>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
	<ol> <li>Protein containing fractions of the best purification are subjected to second purification ste through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.</li> </ol>
	different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate fractions are analyzed by SDS-PAGE.
	1. In a first purification step, the protein is purified from the cleared cell lysate using three
Purification:	Two step purification of proteins expressed in baculovirus infected SF9 insect cells:
	the Expasy's protparam tool to determine the absorption coefficient of each protein.
	The concentration of the protein is calculated using its specific absorption coefficient. We use

# **Application Details**

	as well. As the protein has not been tested for functional studies yet we cannot offer a gurantee though.
Comment:	In cases in which it is highly likely that the recombinant protein with the default tag will be insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible options with you in detail to assure that you receive your protein of interest.
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Buffer:	100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)