# antibodies -online.com





# ERV3 Protein (AA 472-604) (His tag)



Image



Go to Product page

( )	11/	IN	/ie	A .
	/ // <del> </del>	۱ ات	/   (−	' \/\/

Quantity:	1 mg	
Target:	ERV3 (ERV3-1)	
Protein Characteristics:	AA 472-604	
Origin:	Human	
Source:	Escherichia coli (E. coli)	
Protein Type:	Recombinant	
Purification tag / Conjugate:	This ERV3 protein is labelled with His tag.	
Application:	Crystallization (Crys), ELISA, SDS-PAGE (SDS), Western Blotting (WB)	
Product Details		
Sequence:	GITIGDWKDN EWPPERIIQY YGPATWAEDG MWGYRTPVYM LNRIIRLQAV LEIITNETAG	
	ALNLLAQQAT KMRNVIYQNR LALDYLLAQE EGVCGKFNLT NCCLELDDEG KVIKEITAKI	
	QKLAHIPVQT WKG	
	Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a	
	special request, please contact us.	
Characteristics:	<ul> <li>Made in Germany - from design to production - by highly experienced protein experts.</li> <li>Human ERV3-1 Protein (raised in E. Coli) purified by multi-step, protein-specific process to ensure crystallization grade.</li> <li>State-of-the-art algorithm used for plasmid design (Gene synthesis).</li> </ul>	
	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.

The concentration of the protein is calculated using its specific absorption coefficient. We use the Expasy's protparam tool to determine the absorption coefficient of each protein.

#### Purification:

Two step purification of proteins expressed in bacterial culture:

- 1. In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate fractions are analyzed by SDS-PAGE.
- 2. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.

Purity:

>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.

Sterility:

0.22 µm filtered

Endotoxin Level:

Endotoxin has not been removed. Please contact us if you require endotoxin removal.

Grade:

Crystallography grade

### **Target Details**

Target:	ERV3 (ERV3-1)	
Alternative Name:	ERV3-1 (ERV3-1 Products)	
Background:	Retroviral envelope proteins mediate receptor recognition and membrane fusion during early	
	infection. Endogenous envelope proteins may have kept, lost or modified their original function	
	during evolution. This endogenous envelope protein has lost its fusogenic properties. It can	
	inhibit cell growth through decrease expression of cyclin B1 and increased expression of p21 in	

## **Target Details**

Storage Comment:

Expiry Date:

larget Details		
	vitro. {ECO:0000269 PubMed:10692254, ECO:0000269 PubMed:14557543,	
	ECO:0000269 PubMed:7645262}., SU mediates receptor recognition. {ECO:0000250}., TM	
	anchors the envelope heterodimer to the viral membrane through one transmembrane domain.	
	The other hydrophobic domain, called fusion peptide, mediates fusion of the viral membrane	
	with the target cell membrane (By similarity). {ECO:0000250}.	
Molecular Weight:	16.1 kDa Including tag.	
UniProt:	Q14264	
Application Details		
Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies	
	as well. As the protein has not been tested for functional studies yet we cannot offer a	
	guarantee 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	

Store at -80°C.

Unlimited (if stored properly)



**Image 1.** "Crystallography Grade" protein due to multi-step, protein-specific purification process