# Recombinant Human Endogenous retrovirus group K member 6 Env polyprotein (ERVK-6), partial

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| **Product Code** | CSB-EP724336HUa0 |
| **Relevance** | 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 original fusogenic properties.SU mediates receptor recognition.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 |
| **Abbreviation** | Recombinant Human ERVK-6 protein, partial |
| **Storage** | The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C. |
| **Uniprot No.** | Q69384 |
| **Product Type** | Recombinant Protein |
| **Immunogen Species** | Homo sapiens (Human) |
| **Purity** | Greater than 85% as determined by SDS-PAGE. |
| **Sequence** | LPMPAGAAAANYTYWAYVPFPPLIRAVTWMDNPTEVYVNDSVWVPGPIDDRC PAKPEEEGMMINISIGYHYPPICLGRAPGCLMPAVQNWLVEVPTVSPICRFTYH MVSGMSLRPRVNYLQDFSYQRSLKFRPKGKPCPKEIPKESKNTEVLVWEECV ANSAVILQNNEFGTIIDWAPRGQFYHNCSGQTQSCPSAQVSPAVDSDLTESLD KHKHKKLQSFYPWEWGEKGISTPRPKIVSPVSGPEHPELWRLTVASHHIRIWS GNQTLETRDRKPFYTIDLNSSLTVPLQSCVKPPYMLVVGNIVIKPDSQTITCENC RLLTCIDSTFNWQHRILLVRAREGVWIPVSMDRPWEASPSVHILTEVLKGVLNR SKRFIFTLIAVIMGLIAVTATAAVAGVALHSSVQSVNFVNDWQKNSTRLWNSQS SIDQKLANQINDLRQTVIWMGDRLMSLEHRFQLQCDWNTSDFCITPQIYNESE HHWDMVRRHLQGREDNLTLDISKLKEQIFEASKAHLNLVPGTEAIAGVADGLA NLNPVTWVKT |
| **Research Area** | others |
| **Source** | E.coli |
| **Target Names** | ERVK-6 |
| **Protein Names** | EnvK2 proteinEnvelope polyproteinHERV-K(C7) envelope proteinHERV-K(HML-2.HOM) envelope proteinHERV-K108 envelope proteinHERV-K_7p22.1 provirus ancestral Env polyprotein |
| **Expression Region** | 90-632aa |
| **Notes** | Repeated freezing and thawing is not recommended. Store working aliquots at |

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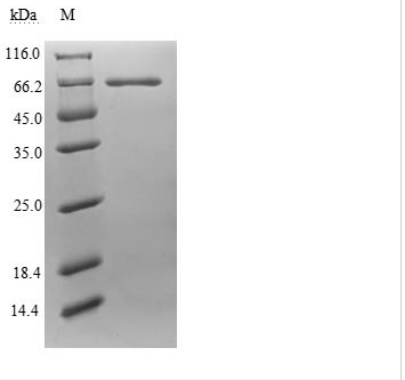
| | 4°C for up to one week. |
| **Tag Info** | N-terminal 6xHis-tagged |
| **Mol. Weight** | 65.5 kDa |
| **Protein Length** | Extracellular Domain |

**Image**




(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

**Description**

N-terminal 6xHis-tagged recombinant human Endogenous retrovirus group K member 6 Env polyprotein (ERVK-6) is a partial-length protein containing amino acid 90-632. It is the extracellular domain of human ERVK-6 protein and can be used for the production of corresponding specific antibodies. Procaryotic expression (E.coli) confers this recombinant ERVK-6 good features such as clear genetic background and relatively simple separation ? purification. The purity of ERVK-6 protein is greater than 85% determined by SDS-PAGE. This recombinant ERVK-6 protein may also be used in the studies of microbiology.

Human ERVK-6 is a member of human endogenous retrovirus type K (HERV-K), the sole group of endogenous retroviruses that are established to contain human-specific members. As a retroviral envelope protein, ERVK-6 mediates receptor recognition and membrane fusion during early infection. This endogenous envelope protein has lost its original fusogenic properties during evolution.

**Reconstitution**

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL.We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

**Shelf Life**

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.
Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.