

## ERVK-6 Protein, Human, Recombinant (His)

## General Information

Synonyms:	HERV-K(HML-2.HOM) envelope protein;HERV-K_7p22.1 provirus ancestral Env polyprotein; ERVK6;ERVK-6;HERV-K108 envelope protein;Endogenous retrovirus group K member 6 Env polyprotein;HERV-K(C7) envelope protein;Envelope polyprotein;EnvK2 protein
Protein Construction:	90-632 aa
Species:	Human
Expression Host:	Baculovirus Insect Cells
Accession:	Q69384
Molecular Weight:	64 kDa (predicted)
AA Sequence:	LPMPAGAAAANYTYWAYVFPPLIRAVTWMDNPTEVYVNDVWVPGPIDDRCPAKPEEEGMMINISIGYHY PPICLGRAPGCLMPAVQNWLVEVPTVSPICRFTYHVMVSGMSLRPRVNYLQDFSYQRSCLKFRPKGKPCPK ESKNTEVLVWEECVANSVILQNNFEGTIIDWAPRGQFYHNCSGQTQSCPSAQVSPAVDSDLTESLDKHKHK KLQSFYPWEWGEKGISTPRPKIVSPVSGPEHPELWRLTVASHHIRIWSGNQTLTRDRKPFYIDLNSSLTVPL QSCVKPPYMLVGNIVIKPDSQTITCENCRLLTCIDSTFNWQHRILLVRAREGVWIPVSMRDPWEASPSVHILT EVLKGVNRSKRIFTLIAVIMGLIAVTATAAVAGVALHSSVQSVNFVNDWQKNSTRLLWNSQSSIDQKLANQI NDLRQTVIWMGDRLMSLEHRFQLQCDWNTSDFCITPQIYNESEHHWDMVRRHLQGREDNLTLDISKLKEQIF EASKAHLNLVPGTEAIAGVADGLANLNPVTWVKT

## QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 85% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	If the delivery form is liquid, the default storage buffer is Tris/PBS-based buffer, 5%-50% glycerol. If the delivery form is lyophilized powder, the buffer before lyophilization is Tris/PBS-based buffer, 6% Trehalose, pH 8.0.

## Preparation and Storage

## Reconstitution:

Reconstitute the lyophilized protein in sterile deionized water. The product concentration should not be less than 100 μg/mL. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

## Stability &amp; Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months.

Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

### Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

### Protein 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 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.

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