

## ERVK-7 Protein, Human, Recombinant (His)

## General Information

Synonyms:	Endogenous retrovirus group K member 7 Env polyprotein;Envelope polyprotein;HERV-K102 envelope protein;HERV-K_1q22 provirus ancestral Env polyprotein;ERVK-7;HERV-K(III) envelope protein
Protein Construction:	1-588 aa
Species:	Human
Expression Host:	E. coli
Accession:	P61567
Molecular Weight:	68.2 kDa (predicted)
AA Sequence:	MVTPVTWMDNPIEIYVNDVWVPGPIDDRCPAKPEEEGMMINISIGYRYPICLGRAPGCLMPAVQNWLVEVPTVSPISRFTYHMSVSGMSLRPRVNYLQDFSQYRSLKFRPKGKPCPKKEIPKESKNTEVLVWEECVANSVILQNNEFGTIIDWAPRGQFYHNCSGQTQSCPSAQVSPAVDSDLTESLDKHKHKKLQSFYPWEWGEKRISTPRPKIVSPVSGPEHPELWRLTVASHHIRIWSGNQTLERDCKPFYTIDLNSSLTVPLQSCVKPPYMLVVGNIKIPDSQITCENCRLISCIDSTFNWQHRILLVRAREGVWIPVSMRDPWEASPSVHILTEVLKGVLNRSKRIFFTLIIVIMGLIAVTATAAVAGVALHSSVQSVNFVNDWQKNSTRLWNSQSSIDQKLANQINDLRQTVIWMGDRLMSLEHRFQLQCDWNTSDFCITPQIYNESEHHWDMVRRHLQGREDNLTLDISKLEQIFEASKAHLNLVPGTEAIVADGLANLNPVTWVKTIGSTTIINLILVCLFCLLLVCRCTQQLRRDSDHRERAMMTMAVLKSRKGGNVGKSKRDQIVTVSV

## 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.; 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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