

## Syncytin-1 Protein, Human, Recombinant (His &amp; SUMO)

## General Information

Synonyms:	HERV-7q Envelope protein;Enverin;ERVW-1;Syncytin;HERV-W_7q21.2 provirus ancestral Env polyprotein;Env-W;Envelope polyprotein gPr73;Endogenous retrovirus group W member 1; ERVWE1;Syncytin-1;HERV-W envelope protein
Protein Construction:	21-443 aa
Species:	Human
Expression Host:	E. coli
Accession:	Q9UQF0
Molecular Weight:	63.0 kDa (predicted)
AA Sequence:	APPPCRCMTSSSPYQEFLLWRMQRPGNIDAPSYRSLSKGTPFTTAHTHMPRNCYHSATLCMHANTHYWTGK MINPSCPGGLGVTVWCWYFTQTGMSDGGGVQDQAREKHVKEVISQLTRVHGTSSPYKGLDLSKLNHETLRHT RLVSLFNLTGLHEVSAQNPTNCWICLPLNFRPVYSIPVPEQWNNFSTEINTTSLVVGPLVSNLEITHSNTLC VKFSNTTYTTNSQCIRWVTPPTQIVCLPSGIFVCGTSAYRCLNGSSESMCFLSFLVPPMTIYTEQDLYSYVISKP RNKRVPILPFVIGAGVLGALGTGIGGITTSTQFYKLSQELNGDMERVADSLVTLQDQLNSLAAVVLQNRRL DLLTAERGGTCLFLGEECCYYVNQSGIVTEKVKIIRDRIQRRAEELRNTGPWGLLSQ

## 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:	> 90% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Tris-based buffer, 50% glycerol

## Preparation and Storage

## Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

## 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

This endogenous retroviral envelope protein has retained its original fusogenic properties and participates in trophoblast fusion and the formation of a syncytium during placenta morphogenesis. May induce fusion through binding of SLC1A4 and SLC1A5.; Endogenous envelope proteins may have kept, lost or modified their original function during evolution. Retroviral envelope proteins mediate receptor recognition and membrane fusion during early infection. The surface protein (SU) mediates receptor recognition, while the transmembrane protein (TM) acts as a class I viral fusion protein. The protein may have at least 3 conformational states: pre-fusion native state, pre-hairpin intermediate state, and post-fusion hairpin state. During viral and target cell membrane fusion, the coiled coil regions (heptad repeats) assume a trimer-of-hairpins structure, positioning the fusion peptide in close proximity to the C-terminal region of the ectodomain. The formation of this structure appears to drive apposition and subsequent fusion of membranes.

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