

Syncytin-1 Recombinant Protein | ERVW-1 recombinant protein

Recombinant Human Syncytin-1

CATALOG # AAA18779	HOST E Coli or Yeast or Baculovirus or Mammalian Cell
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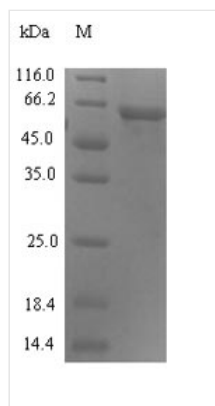
PRODUCT SYNONYMS

Syncytin-1; Recombinant Human Syncytin-1; Endogenous retrovirus group W member 1; Env-W; Envelope polyprotein gPr73; Enverin; HERV-7q Envelope protein; HERV-W envelope protein; HERV-W_7q21.2 provirus ancestral Env polyprotein; Syncytin; Surface protein; SU; gp50; Transmembrane protein; TM; gp24; ERVW-1 recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE.
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Sequence Positions	21-443aa; Partial
Sequence	APPPCRCMTS SSPYQEFLWR MQRPGNIDAP SYRSLSKGTP TFTAHTHMPR NCYHSATLCM HANTHYWTGK MINPSCPGGL GVTVCWTYFT QTGMSDGGGV QDQAREKHVK EVISQLTRVH GTSSPYKGLD LSKLHETLRT HTRLVSLFNT TLTGLHEVSA QNPTNCWICL PLNFRPYVSI PVPEQWNNFS TEINTTSVLV GPLVSNLEIT HTSNLTCVKF SNTTYTTNSQ CIRWVTPPTQ IVCLPSGIFF VCGTSAYRCL NGSSSESMCFL SFLVPPMTIY TEQDLYSYVI SKPRNKRVP I LPFVIGAGVL GALGTGIGGI TTSTQFYK L SQELNGDMER VADSLVTLQD QLNSLAAVVL QNRRALDLLT AERGGTCLFL GEECCYYVNQ SGIVTEKVKE IRDRIQRRAE ELRNTGPWGL LSQ
Species	Homo sapiens (Human)
Preparation and Storage	Store at -20 degree C, for extended storage, conserve at -20 degree C or -80 degree C.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for ERVW-1 recombinant protein	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 (PubMed:10708449, PubMed:12050356, PubMed:23492904). 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.
Product Categories/Family for ERVW-1 recombinant protein	Cell Biology
References	"Molecular characterization and placental expression of HERV-W, a new human endogenous retrovirus family." Blond J.-L., Beseme F., Duret L., Bouton O., Bedin F., Perron H., Mandrand B., Mallet F. J. Virol. 73:1175-1185(1999)

NCBI AND UNIPROT INFORMATION

NCBI GI #	195963433
NCBI GeneID	30816
NCBI Accession #	NP_001124397.1
NCBI GenBank Nucleotide #	NM_001130925.1
UniProt Accession #	Q9UQF0; O95244; O95245; Q8NHY7; Q9NRZ2; Q9NZG3; B2RPD4
Molecular Weight	49 kDa
NCBI Official Full Name	syncytin-1
NCBI Official Synonym Full Names	endogenous retrovirus group W member 1
NCBI Official Symbol	ERVW-1
NCBI Official Synonym Symbols	ENV; ENVW; HERVW; ERVWE1; HERV7Q; HERV-7q; HERVWENV; HERV-W-ENV
NCBI Protein Information	syncytin-1
UniProt Protein Name	Syncytin-1
UniProt Gene Name	ERVW-1
UniProt Synonym Gene Names	ERVWE1; SU; TM
UniProt Entry Name	SYCY1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.