Recombinant ERVV2 protein (His tag)

Catalog Number	551342
Synonyms	HERV-V_19q13.41 provirus ancestral Env polyprotein 2
Species	Human
Expression System	E. coli
Accession	B6SEH9
Molecular Weight	Predictes a molecular mass of 13.20 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 13 kDa band.

Product Information

Sequence Region	351-456
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>86%, by SDS-PAGE with Coomassie Brilliant Blue staining.
Endotoxin	Not tested.
Activity	Not tested.
Stability	Samples are stable for up to twelve months from date of receipt at -70℃
Protein Construction	DNA encoding 351-456 aa (B6SEH9) were fused with 6His tag.

Storage & Handling

Reconstitution	Reconstitute at 0.25 μg/μl in sterile water for short-term storage. Reconstitution with 50% glycerol solution is recommended for longer term storage (see Stability and Storage for more details). If a different concentration is needed for your purposes please adjust the reconstitution volume as required (please note: the ion concentration of the final solution will vary according to the volume used). Note: Centrifuge vial before opening. When reconstituting, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution.
Storage	Store it under sterile conditions at -20℃ to -80℃. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Shipping	In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.

Description

Description	This product is a high-purity recombinant protein fragment (residues 351-456) of the Endogenous Retrovirus Group V Member 2 Envelope (Env) Polyprotein (HERV-V_19q13.41 provirus ancestral Env polyprotein 2), encoded by the human ERVV-2 gene. The fragment has been computationally designed for optimal stability and solubility, making it an ideal reagent for structural biology and biochemical characterization studies. The full-length Endogenous Retrovirus Group V Member 2 Env Polyprotein is a human protein derived from ancestral retroviral sequences integrated into the genome. Based on its annotation, it is a multi-pass membrane protein localized to the cellular membrane. Such endogenous retroviral envelope proteins are of significant research interest for their potential roles in cellular physiology, placental development, immune modulation, and their implications in various disease states. This recombinant fragment provides a tractable tool for investigating the properties of this membrane-associated protein.