Recombinant RTL1 protein (His tag)

Catalog Number	550580
Synonyms	Mammalian retrotransposon derived protein 1; Paternally expressed gene 11 protein; Retrotransposon-derived protein PEG11
Species	Human
Expression System	E. coli
Accession	A6NKG5
Molecular Weight	Predictes a molecular mass of 33.43 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 33 kDa band.

Product Information

Sequence Region	713-983
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>85%, 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 713-983 aa (A6NKG5) 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 recombinant fragment of the human Retrotransposon-like protein 1 (RTL1), specifically spanning residues 713-983. It is designed for researchers studying placental development and endothelial cell function, offering a stable and soluble unit ideal for structural and biochemical applications. The full-length Retrotransposon-like protein 1, encoded by the RTL1 gene, is a multi-pass membrane protein localized to the membrane in human cells. It plays an essential role in capillary endothelial cells by maintaining the feto-maternal interface and supporting placental development, highlighting its significance in reproductive biology and cellular maintenance processes.