Recombinant RTL9 protein (His tag)

Catalog Number	551577
Synonyms	Retrotransposon gag domain-containing protein 1; Tumor antigen BJ-HCC-23
Species	Human
Expression System	E. coli
Accession	Q8NET4
Molecular Weight	Predictes a molecular mass of 17.05 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 18 kDa band.

Product Information

Sequence Region	1181-1315
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 1181-1315 aa (Q8NET4) 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 of human Retrotransposon Gag-like protein 9 (RTL9), encompassing residues 1181-1315. This 135-amino acid fragment has been computationally designed for optimal stability and solubility, making it an ideal reagent for structural biology studies and biochemical characterization. The full-length Retrotransposon Gag-like protein 9, also known as RTL9, is encoded by the RTL9 gene in Homo sapiens. It has been identified under the alternative name Tumor antigen BJ-HCC-23, suggesting a potential role or association in oncological contexts. As a protein containing a retrotransposon gag domain, it is inferred to share structural or functional homology with retroviral Gag proteins, which are typically involved in viral assembly and packaging. The specific biological function, mechanism of action, and subcellular localization of the endogenous human RTL9 protein are areas of active research. The provided fragment offers a tractable tool to investigate the properties of this protein domain.