Recombinant RNF12 protein (His tag)

Catalog Number	548372
Synonyms	LIM domain-interacting RING finger protein; RING finger LIM domain-binding protein; R-LIM; RING finger protein 12; RING-type E3 ubiquitin transferase RLIM; Renal carcinoma antigen NY-REN-43
Species	Human
Expression System	E. coli
Accession	Q9NVW2
Molecular Weight	Predictes a molecular mass of 10.45 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 10 kDa band.

Product Information

Sequence Region	547-624
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>90%, 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 547-624 aa (Q9NVW2) 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 human E3 ubiquitin-protein ligase RLIM (residues 547-624), a key regulator of transcription factors and telomere maintenance. The fragment is engineered for stability and solubility, making it ideal for structural studies, biochemical assays, and functional investigations into ubiquitination pathways. E3 ubiquitin-protein ligase RLIM (UniProt ID: Q9NVW2) is a nuclear enzyme that functions as a RING-type E3 ubiquitin transferase. It acts as a negative coregulator for LIM homeodomain transcription factors by mediating the ubiquitination and degradation of LIM cofactors LDB1 and LDB2, and by recruiting the SIN3a/histone deacetylase corepressor complex. RLIM also plays roles in telomere length-mediated growth suppression through TERF1 ubiquitination and in X-chromosome inactivation by targeting ZFP42 for degradation. The protein is localized to the nucleus, where it executes its regulatory functions in gene expression and cellular homeostasis.