Recombinant LV321 protein (His tag)

Catalog Number	542507
Synonyms	Ig lambda chain V-III region LOI; Ig lambda chain V-V region DEL; Ig lambda chain V-VII region MOT
Species	Human
Expression System	E. coli
Accession	P80748
Molecular Weight	Predictes a molecular mass of 12.31 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 12 kDa band.

Product Information

Sequence Region	18-117
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 18-117 aa (P80748) 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 Immunoglobulin lambda variable 3-21 protein (IGLV3-21), spanning residues 18-117. This fragment represents a stable and soluble variable domain region, ideal for structural studies, antigen-binding assays, and immunological research. Immunoglobulin lambda variable 3-21 is a component of the variable domain of immunoglobulin light chains, playing a critical role in antigen recognition during humoral immune responses. Immunoglobulins, or antibodies, are glycoproteins produced by B lymphocytes that function as membrane-bound receptors or secreted effector molecules. The membrane-bound form acts as an antigen-specific receptor on B cells, triggering clonal expansion and differentiation into antibody-secreting plasma cells upon antigen binding. The secreted form mediates the elimination of antigens. The antigen-binding site is formed by the variable domains of both heavy and light chains, with each immunoglobulin possessing two binding sites. These variable domains undergo V-(D)-J rearrangement and somatic hypermutation, enabling affinity maturation for specific antigens. The protein is localized to the cell membrane and is also secreted, reflecting its dual roles in immune recognition and effector functions.