Recombinant LV552 protein (His tag)

Catalog Number	549986
Species	Human
Expression System	E. coli
Accession	A0A0A0MRZ9
Molecular Weight	Predictes a molecular mass of 13.06 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 13 kDa band.

Product Information

Sequence Region	20-124
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>87%, 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 20-124 aa (A0A0A0MRZ9) 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	Recombinant Immunoglobulin lambda variable 5-52 (IGLV5-52) Fragment (residues 20-124) is a highly stable and soluble protein fragment engineered for structural and biochemical studies. This human-derived fragment retains key functional characteristics of the variable domain, making it an ideal tool for investigating antigen recognition mechanisms and antibody engineering applications. Immunoglobulin lambda variable 5-52 is a component of the variable domain of immunoglobulin light chains that plays a crucial role in antigen recognition. As part of the humoral immune response, immunoglobulins function as either membrane-bound receptors on B lymphocytes or as secreted antibodies. The membrane-bound form serves as antigen receptors that trigger B cell activation and differentiation into antibody-secreting plasma cells, while secreted immunoglobulins mediate the effector phase of humoral immunity by eliminating bound antigens. The antigen binding site is formed by the variable domain of one heavy chain paired with its associated light chain variable domain, with each immunoglobulin possessing two antigen binding sites with high affinity for specific antigens. The variable domains undergo V-(D)-J rearrangement and somatic hypermutations, allowing for affinity maturation toward particular antigens. This protein is naturally found in both secreted form and cell membrane-associated form in human cells.