Recombinant LV746 protein (His tag)

Catalog Number	550780
Species	Human
Expression System	E. coli
Accession	A0A075B6I9
Molecular Weight	Predictes a molecular mass of 12.04 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 12 kDa band.

Product Information

Sequence Region	20-117
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 20-117 aa (A0A075B6I9) 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 7-46 (IGLV7-46) fragment (residues 20-117) is a highly stable and soluble protein unit designed for structural and functional studies. This fragment represents the key antigen-binding variable domain of human immunoglobulin light chains, enabling researchers to investigate antibody-antigen interactions and B-cell receptor signaling with precision. Immunoglobulin lambda variable 7-46 is a V region of the variable domain of immunoglobulin light chains that plays a critical role in antigen recognition during humoral immunity. As part of antibodies produced by B lymphocytes, it functions both as a membrane-bound receptor triggering B-cell activation upon antigen binding and as a secreted glycoprotein mediating antigen elimination. The antigen-binding site is formed by the variable domain of the light chain paired with a heavy chain variable domain, with specificity achieved through V-(D)-J rearrangement and affinity maturation via somatic hypermutations. This protein is localized to the cell membrane and secreted into the extracellular space, underscoring its dual role in immune recognition and effector functions.