Recombinant LV548 protein (His tag)

Catalog Number	551045
Species	Human
Expression System	E. coli
Accession	A0A075B6I7
Molecular Weight	Predictes a molecular mass of 10.83 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 11 kDa band.

Product Information

Sequence Region	20-105
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>88%, 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 20-105 aa (A0A075B6I7) 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 Human Probable Non-Functional Immunoglobulin Lambda Variable 5-48 Fragment (Amino Acids 20-105) - A stable, soluble protein fragment ideal for structural studies and immunological research. This 86-amino acid fragment represents a computationally optimized region of the IGLV5-48 protein, providing researchers with a reliable tool for investigating immunoglobulin variable domain architecture and non-functional ORF characteristics. The full-length Probable Non-Functional Immunoglobulin Lambda Variable 5-48 (IGLV5-48) protein represents a non-functional open reading frame within the variable domain of immunoglobulin light chains. Immunoglobulins are glycoproteins produced by B lymphocytes that serve as critical components of the humoral immune response. Membrane-bound immunoglobulins function as antigen receptors on B cells, triggering immune responses upon antigen binding, while secreted immunoglobulins mediate the effector phase of humoral immunity. The full-length protein is localized to both the cell membrane and secreted compartments. This particular ORF is considered non-functional due to alterations in V-(D)-J or switch recombination, splicing sites, or conserved amino acid changes that prevent its participation in productive immunoglobulin chain synthesis. The antigen binding site in functional immunoglobulins is formed by the variable domain of one heavy chain paired with its associated light chain variable domain, with these variable domains undergoing V-(D)-J rearrangement and somatic hypermutation for antigen affinity maturation.