Recombinant LV319 protein (His tag)

Catalog Number	548663
Synonyms	Ig lambda chain V-III region SH
Species	Human
Expression System	E. coli
Accession	P01714
Molecular Weight	Predictes a molecular mass of 11.51 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 12 kDa band.

Product Information

Sequence Region	21-112
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 21-112 aa (P01714) 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 3-19 (Ig lambda chain V-III region SH) fragment (amino acids 21-112) offers a stable and soluble unit ideal for structural studies and biochemical assays. This human-derived protein fragment retains key functional characteristics of the variable domain, supporting research in antibody engineering and immune response mechanisms. Immunoglobulin lambda variable 3-19 is part of the variable domain of immunoglobulin light chains and plays a critical role in antigen recognition during humoral immunity. Immunoglobulins, produced by B lymphocytes, function as membrane-bound receptors that trigger B cell activation upon antigen binding or as secreted antibodies that mediate antigen elimination. The antigen binding site is formed by the variable domains of both heavy and light chains, with each immunoglobulin possessing two antigen-binding sites. These variable domains undergo V-(D)-J rearrangement and somatic hypermutation, enabling affinity maturation for specific antigens. The full-length protein is localized to the cell membrane and is secreted, reflecting its dual roles in immune recognition and effector functions.