Recombinant KVD13 protein (His tag)

Catalog Number	550552
Species	Human
Expression System	E. coli
Accession	A0A0B4J2D9
Molecular Weight	Predictes a molecular mass of 11.77 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 12 kDa band.

Product Information

Sequence Region	23-117
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 23-117 aa (A0A0B4J2D9) 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 kappa variable 1D-13 fragment (23-117) represents a stable, soluble unit of the human immunoglobulin light chain variable domain. This carefully selected fragment maintains structural integrity while providing an ideal tool for studying antigen recognition mechanisms and antibody engineering applications. Immunoglobulin kappa variable 1D-13 (IGKV1D-13) is a V region 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 membrane-bound receptors on B lymphocytes that, upon antigen binding, trigger B cell expansion and differentiation into antibody-secreting plasma cells. The antigen binding site is formed by the variable domain of one heavy chain together with its associated light chain variable domain, with each immunoglobulin possessing two antigen binding sites exhibiting remarkable antigen affinity. The variable domains undergo V-(D)-J rearrangement and somatic hypermutations that enable affinity maturation for specific antigens. This protein is naturally found in both secreted form and cell membrane-associated locations, reflecting its dual role in antigen recognition and immune signaling.