Recombinant HV320 protein (His tag)

Catalog Number	550002
Species	Human
Expression System	E. coli
Accession	A0A0C4DH32
Molecular Weight	Predictes a molecular mass of 12.20 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	>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 20-117 aa (A0A0C4DH32) 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	This product is a recombinant fragment of the human Immunoglobulin heavy variable 3-20 (IGHV3-20) protein, spanning amino acids 20-117. It represents a stable and soluble variable domain region, ideal for structural studies, antibody engineering, and antigen-binding research. Immunoglobulin heavy variable 3-20 is a V region of the immunoglobulin heavy chain variable domain, crucial for antigen recognition in 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 domain of the heavy chain paired with a light chain, enabling high-affinity antigen interactions through processes like V-(D)-J rearrangement and somatic hypermutation. This protein is localized to the cell membrane and secreted, playing key roles in immune response specificity and affinity maturation.