Recombinant HV428 protein (His tag)

Catalog Number	550554
Species	Human
Expression System	E. coli
Accession	A0A0C4DH34
Molecular Weight	Predictes a molecular mass of 12.47 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 (A0A0C4DH34) 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 heavy variable 4-28 fragment (amino acids 20-117) is a high-purity protein designed for structural and functional studies. This fragment represents a stable, soluble variable domain region critical for antigen recognition, making it ideal for antibody engineering, immunology research, and binding assays. Immunoglobulin heavy variable 4-28 (IGHV4-28) is a human-derived variable domain region of immunoglobulin heavy chains that plays a key role in antigen recognition during humoral immune responses. As part of antibodies produced by B lymphocytes, it contributes to both membrane-bound receptors on B cells and secreted antibodies in plasma. The antigen-binding site is formed through V-(D)-J rearrangement and somatic hypermutation, enabling high-affinity interactions with specific antigens. This protein is naturally found in secreted form and on cell membranes, supporting its involvement in both immune recognition and effector functions. The selected fragment (20-117) encompasses the core variable domain, preserving essential structural features for research applications.