Recombinant IGHA2 protein (His tag)

Catalog Number	537408
Synonyms	Ig alpha-2 chain C region; Ig alpha-2 chain C region BUT; Ig alpha-2 chain C region LAN
Species	Human
Expression System	E. coli
Accession	P01877
Molecular Weight	Predictes a molecular mass of 36.10 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 36 kDa band.

Product Information

Sequence Region	1-319
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 1-319 aa (P01877) 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 Immunoglobulin Heavy Constant Alpha 2 (IGHA2) Fragment (aa 1-319) - A high-purity protein fragment encompassing the complete Ig-like domains 1, 2, and 3, designed for comprehensive studies of immunoglobulin structure and function in mucosal immunity research. Immunoglobulin heavy constant alpha 2 represents the constant region of immunoglobulin heavy chains, which are essential glycoproteins produced by B lymphocytes. As the major immunoglobulin class in body secretions, IgA plays a critical role in the effector phase of humoral immunity by mediating antigen elimination. The full-length protein exists in both secreted and membrane-bound forms, with the membrane-bound version serving as antigen receptors on B cells that trigger clonal expansion and differentiation upon antigen binding. Each immunoglobulin contains two antigen binding sites formed by variable domains that undergo V-(D)-J rearrangement and somatic hypermutations, allowing remarkable antigen affinity and maturation. This recombinant fragment specifically covers the conserved Ig-like domains that contribute to the structural framework and functional properties of the immunoglobulin molecule.