Recombinant SG2A2 protein (His tag)

Catalog Number	551125
Synonyms	Mammaglobin-1; Secretoglobin family 2A member 2
Species	Human
Expression System	E. coli
Accession	Q13296
Molecular Weight	Predictes a molecular mass of 10.13 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 11 kDa band.

Product Information

Sequence Region	19-93
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>90%, 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 19-93 aa (Q13296) 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 Mammaglobin-A (SCGB2A2) Fragment (aa 19-93) is a highly stable and soluble protein fragment designed for structural biology and biochemical studies. This 75-amino acid fragment represents a key functional domain of Mammaglobin-1, providing researchers with an optimal tool for investigating protein structure-function relationships and molecular interactions. Mammaglobin-A (Secretoglobin family 2A member 2) is a human protein that functions as a secreted molecule, as indicated by its subcellular localization. As a member of the secretoglobin family, Mammaglobin-1 is involved in various biological processes through its extracellular activities. The full-length protein's secretory nature suggests potential roles in cell signaling, immune regulation, or other extracellular functions, though specific mechanistic details require further investigation. The selected fragment (amino acids 19-93) encompasses the core structural domain of the protein, providing a representative unit for studying its fundamental properties while maintaining stability and solubility for experimental applications.