Recombinant COMA1 protein (His tag)

Catalog Number	548791
Synonyms	XXII
Species	Human
Expression System	E. coli
Accession	Q8NFW1
Molecular Weight	Predictes a molecular mass of 47.34 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 50 kDa band.

Product Information

Sequence Region	36-441
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>86%, 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 36-441 aa (Q8NFW1) 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 Collagen alpha-1(XXII) chain fragment (residues 36-441) is a high-purity protein designed for studying cell adhesion mechanisms. This 406-amino acid fragment fully encompasses the VWFA and Laminin G-like functional domains, making it an ideal tool for investigating epithelial and fibroblast interactions in skin biology research. The full-length Collagen alpha-1(XXII) chain, encoded by the COL22A1 gene, functions as a cell adhesion ligand that mediates interactions between skin epithelial cells and fibroblasts. This protein is primarily localized to the extracellular matrix and secreted into the extracellular space, where it plays crucial roles in cellular adhesion processes. The cytoplasmic localization noted in some studies suggests potential additional intracellular functions, positioning this protein as a key component in skin tissue organization and cell-matrix interactions.