Recombinant CO5A2 protein (His tag)

Catalog Number	537437
Synonyms	V
Species	Human
Expression System	E. coli
Accession	P05997
Molecular Weight	Predictes a molecular mass of 9.35 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 11 kDa band.

Product Information

Sequence Region	27-96
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>89%, 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 27-96 aa (P05997) 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-2(V) chain fragment (residues 27-96) is a highly stable and soluble protein unit derived from the COL5A2 gene, optimized for structural and biochemical studies. This 70-amino acid fragment facilitates research into collagen assembly and extracellular matrix interactions, offering a reliable tool for investigating fibrillar collagen function. Type V collagen, a fibrillar collagen encoded by the COL5A2 gene, is a minor but essential connective tissue component with widespread distribution in humans. It functions in tissue-specific matrix assembly by binding to DNA, heparan sulfate, thrombospondin, heparin, and insulin. The full-length protein is secreted into the extracellular space and localizes to the extracellular matrix, where it contributes to the structural integrity and organization of connective tissues.