Recombinant PCOC2 protein (His tag)

Catalog Number	548500
Synonyms	Procollagen COOH-terminal proteinase enhancer 2; PCPE-2; Procollagen C-proteinase enhancer 2
Species	Human
Expression System	E. coli
Accession	Q9UKZ9
Molecular Weight	Predictes a molecular mass of 29.05 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 29 kDa band.

Product Information

Sequence Region	24-270
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 24-270 aa (Q9UKZ9) 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	Explore the functional domains of human Procollagen C-endopeptidase enhancer 2 (PCPE-2) with our recombinant protein fragment spanning residues 24-270. This 247-amino acid construct fully encompasses the CUB 1 and CUB 2 domains, providing an ideal tool for investigating collagen processing mechanisms and domain-specific interactions in extracellular matrix biology. Procollagen C-endopeptidase enhancer 2 (PCPE-2), encoded by the PCOLCE2 gene, is a secreted protein that binds to the C-terminal propeptide of types I and II procollagens. Its primary function involves enhancing the cleavage of these propeptides by BMP1, a key step in collagen maturation and extracellular matrix assembly. As a secreted protein, PCPE-2 operates in the extracellular space where it modulates collagen processing, making it significant for understanding connective tissue formation and remodeling processes.