Recombinant PCOC1 protein (His tag)

Catalog Number	540328
Synonyms	Procollagen COOH-terminal proteinase enhancer 1; PCPE-1; Procollagen C-proteinase enhancer 1; Type 1 procollagen C-proteinase enhancer protein; Type I procollagen COOH-terminal proteinase enhancer
Species	Human
Expression System	E. coli
Accession	Q15113
Molecular Weight	Predictes a molecular mass of 27.97 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 28 kDa band.

Product Information

Sequence Region	33-276
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 33-276 aa (Q15113) 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	Introducing the recombinant fragment of human Procollagen C-endopeptidase enhancer 1 (PCPE-1), encompassing amino acids 33-276. This product includes the complete CUB 1 and CUB 2 domains, providing an essential tool for investigating the specific mechanisms of procollagen processing enhancement and metalloproteinase regulation. Procollagen C-endopeptidase enhancer 1 (PCPE-1), encoded by the PCOLCE gene, is a secreted protein that plays a critical role in collagen maturation. It binds to the C-terminal propeptide of type I procollagen and significantly enhances the activity of procollagen C-proteinase, facilitating proper collagen fibril formation. Additionally, the C-terminal processed portion of PCPE (CT-PCPE) may exhibit metalloproteinase inhibitory activity, suggesting a dual regulatory function in extracellular matrix remodeling. As a secreted protein, PCPE-1 operates within the extracellular space, making it directly relevant to studies of connective tissue biology and fibrotic diseases.