Recombinant VIME protein (His tag)

Catalog Number	537459
Species	Human
Expression System	E. coli
Accession	P08670
Molecular Weight	Predictes a molecular mass of 39.32 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 49 kDa band.

Product Information

Sequence Region	91-409
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>87%, 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 91-409 aa (P08670) 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 Vimentin Fragment (aa 91-409) is a high-quality, stable protein designed for structural and biochemical studies. This 319-amino acid fragment retains key structural features of full-length Vimentin, offering researchers a soluble and functional unit ideal for investigating intermediate filament dynamics, cell migration mechanisms, and collagen mRNA stabilization. Vimentin is a class-III intermediate filament protein predominantly expressed in mesenchymal and non-epithelial cells, where it plays critical roles in maintaining cellular integrity and facilitating directional movement. It anchors to organelles including the nucleus, endoplasmic reticulum, and mitochondria, contributing to cell sheet organization and polarization of the Golgi complex during migration. Vimentin also stabilizes the SCRIB protein against degradation and, in partnership with LARP6, supports the stabilization of type I collagen mRNAs (CO1A1 and CO1A2), underscoring its importance in extracellular matrix regulation. Located primarily in the cytoplasm and cytoskeleton, with associations to the nuclear matrix and cell membrane, Vimentin is a key target for research in cell biology, cancer metastasis, and fibrosis.