Recombinant K2C8 protein (His tag)

Catalog Number	537434
Synonyms	Cytokeratin-8; CK-8; Keratin-8; K8; Type-II keratin Kb8
Species	Human
Expression System	E. coli
Accession	P05787
Molecular Weight	Predictes a molecular mass of 38.84 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 46 kDa band.

Product Information

Sequence Region	85-403
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 85-403 aa (P05787) 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 Keratin-8 (KRT8) Fragment (aa 85-403) is a high-purity protein designed for studying the intermediate filament (IF) rod domain. This 319-amino acid fragment retains key structural features, making it an ideal tool for cytoskeletal research, muscle contractile apparatus studies, and dystrophin interaction assays. Keratin-8 (KRT8) is a type II cytoskeletal protein that forms intermediate filaments and plays a critical role in cellular structural integrity. According to functional studies, Keratin-8 works in conjunction with KRT19 to link the contractile apparatus to dystrophin at costameres in striated muscle, facilitating mechanical stability and force transmission. The protein localizes primarily to the cytoplasm, with additional presence reported in the nucleoplasm and nuclear matrix, suggesting potential roles in nuclear organization. The provided fragment (aa 85-403) encompasses the complete IF rod domain (aa 91-402), enabling focused investigation into domain-specific functions without interference from regulatory regions.