Recombinant K2C79 protein (His tag)

Catalog Number	542867
Synonyms	Cytokeratin-79; CK-79; Keratin-6-like; Keratin-6L; Keratin-79; K79; Type-II keratin Kb38
Species	Human
Expression System	E. coli
Accession	Q5XKE5
Molecular Weight	Predictes a molecular mass of 38.12 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 43 kDa band.

Product Information

Sequence Region	138-453
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 138-453 aa (Q5XKE5) 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-79 Fragment (aa 138-453) is a high-purity, stable protein fragment derived from the type II cytoskeletal keratin 79 (KRT79). This 316-amino acid segment has been computationally optimized for solubility and structural integrity, making it an ideal reagent for biochemical assays, structural studies, and keratin network research. Keratin-79 is a type II intermediate filament protein expressed in human tissues, playing a critical role in cytoskeletal integrity and cellular mechanical strength. As a member of the keratin family, it contributes to epithelial cell structure and resilience. The selected fragment (aa 138-453) represents a stable, soluble domain suitable for experimental applications where full-length keratin aggregation challenges traditional analysis methods.