Recombinant K2C75 protein (His tag)

Catalog Number	544240
Synonyms	Cytokeratin-75; CK-75; Keratin-6 hair follicle; hK6hf; Keratin-75; K75; Type II keratin-K6hf; Type-II keratin Kb18
Species	Human
Expression System	E. coli
Accession	O95678
Molecular Weight	Predictes a molecular mass of 38.10 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 45 kDa band.

Product Information

Sequence Region	145-458
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 145-458 aa (O95678) 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 Keratin-75 Fragment (aa 145-458) is a high-purity, soluble protein derived from human Keratin, type II cytoskeletal 75, essential for hair and nail formation. This 314-amino acid fragment is engineered for stability and solubility, ideal for structural studies and biochemical assays in hair biology research. Keratin-75 (KRT75) is a type II cytoskeletal keratin that plays a central role in hair and nail formation, serving as an essential component of keratin intermediate filaments in the companion layer of the hair follicle. Its function is critical for maintaining structural integrity in hair follicles, with implications for understanding hair disorders and developmental biology. The full-length protein's significance lies in its specialized contribution to keratin filament networks in follicular tissues.