Recombinant KRT86 protein (His tag)

Catalog Number	546496
Synonyms	Hair keratin K2.11; Keratin-86; K86; Type II hair keratin Hb6; Type-II keratin Kb26
Species	Human
Expression System	E. coli
Accession	O43790
Molecular Weight	Predictes a molecular mass of 38.62 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 46 kDa band.

Product Information

Sequence Region	98-416
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>88%, 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 98-416 aa (O43790) 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-86 Fragment (aa 98-416) is a high-quality protein product representing a stable and soluble unit of the type II cuticular hair keratin K86. This 319-amino acid fragment has been computationally optimized for structural integrity and solubility, making it an ideal reagent for hair biology research, structural studies, and biochemical characterization. Keratin-86 (KRT86) is a type II hair keratin expressed in the hair cortex and cuticle layers. As a member of the keratin intermediate filament family, it plays a crucial structural role in hair shaft formation and integrity. Mutations in the KRT86 gene have been associated with hereditary hair disorders, highlighting its importance in maintaining proper hair structure and function. The full-length protein contributes to the mechanical strength and resilience of hair fibers through its assembly into intermediate filaments.