Recombinant KRT34 protein (His tag)

Catalog Number	541883
Synonyms	Hair keratin, type I Ha4; Keratin-34; K34
Species	Human
Expression System	E. coli
Accession	O76011
Molecular Weight	Predictes a molecular mass of 37.36 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 43 kDa band.

Product Information

Sequence Region	57-362
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>86%, 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 57-362 aa (O76011) 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-34 (KRT34) Fragment (aa 57-362) - A highly stable and soluble protein fragment ideal for structural biology and biochemical studies. This 306-amino acid fragment represents a computationally optimized region of the type I cuticular hair keratin Ha4, providing researchers with a reliable tool for investigating keratin structure-function relationships. Keratin-34 (KRT34) is a type I cuticular hair keratin expressed in Homo sapiens that plays essential roles in hair follicle structure and integrity. As a member of the keratin protein family, it contributes to the mechanical strength and resilience of hair fibers through its participation in intermediate filament formation. The full-length protein is involved in maintaining hair shaft integrity and proper hair follicle development, making it an important target for dermatological and cosmetic research.