Recombinant KRT38 protein (His tag)

Catalog Number	541884
Synonyms	Hair keratin, type I Ha8; Keratin-38; K38
Species	Human
Expression System	E. coli
Accession	O76015
Molecular Weight	Predictes a molecular mass of 37.27 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 45 kDa band.

Product Information

Sequence Region	105-411
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 105-411 aa (O76015) 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	This product is a recombinant fragment of human Keratin-38 (KRT38), encompassing amino acids 105-411. This 307-amino acid fragment was computationally designed to be stable and soluble, making it an ideal tool for structural studies, biochemical assays, and functional research on hair keratin proteins. Keratin-38 (KRT38) is a type I cuticular hair keratin encoded by the KRT38 gene in humans. As a member of the keratin family, it is a key structural component of hair, contributing to its strength, resilience, and integrity. While specific functional details and subcellular localization are not provided here, keratins generally form intermediate filaments in epithelial cells and are critical for cellular structure and protection. This fragment supports investigations into keratin biology and related applications.