Recombinant KRT82 protein (His tag)

Catalog Number	541354
Synonyms	Keratin-82; K82; Type II hair keratin Hb2; Type-II keratin Kb22
Species	Human
Expression System	E. coli
Accession	Q9NSB4
Molecular Weight	Predictes a molecular mass of 38.25 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 44 kDa band.

Product Information

Sequence Region	114-429
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 114-429 aa (Q9NSB4) 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-82 Fragment (aa 114-429) is a high-purity protein designed for structural and biochemical studies. This 316-amino acid fragment of Keratin-82 (KRT82), a key type II hair keratin, has been computationally optimized for stability and solubility, making it ideal for research applications requiring reliable protein performance. Keratin-82 (KRT82) is a type II cuticular hair keratin encoded by the KRT82 gene in humans. As a structural component of hair, it plays a critical role in forming the intermediate filament network that provides mechanical strength and integrity to hair fibers. While specific functional and subcellular localization details are not fully characterized in the provided data, type II keratins typically contribute to the cytoskeletal architecture of specialized epithelial tissues, including hair follicles, and are essential for maintaining cellular integrity under physical stress.