Recombinant KT33B protein (His tag)

Catalog Number	547302
Synonyms	Hair keratin, type I Ha3-II; Keratin-33B; K33B
Species	Human
Expression System	E. coli
Accession	Q14525
Molecular Weight	Predictes a molecular mass of 37.64 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 43 kDa band.

Product Information

Sequence Region	57-363
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 57-363 aa (Q14525) 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-33B Fragment (57-363) is a highly purified protein fragment derived from the human keratin type I cuticular Ha3-II. This 307-amino acid fragment has been computationally optimized for enhanced stability and solubility, making it an ideal reagent for structural biology studies, biochemical characterization, and hair biology research. Keratin-33B (KRT33B) is a type I hair keratin expressed in the hair follicle cortex, playing a crucial role in hair shaft formation and structural integrity. As a member of the keratin protein family, it contributes to the mechanical strength and resilience of hair through intermediate filament formation. The specific biological functions and subcellular localization of the full-length protein require further experimental characterization.