Recombinant K2C72 protein (His tag)

Catalog Number	540319
Synonyms	Cytokeratin-72; CK-72; Keratin-72; K72; Type II inner root sheath-specific keratin-K6irs2; Type-II keratin Kb35
Species	Human
Expression System	E. coli
Accession	Q14CN4
Molecular Weight	Predictes a molecular mass of 38.60 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 45 kDa band.

Product Information

Sequence Region	120-438
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>90%, 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 120-438 aa (Q14CN4) 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-72 (KRT72) Fragment (aa 120-438) – a high-purity protein fragment designed for studying hair formation mechanisms. This 319-amino acid construct fully encompasses the IF rod domain, making it an ideal tool for investigating cytoskeletal functions in inner root sheath biology. Keratin-72 (KRT72) is a type II cytoskeletal keratin that plays a critical role in hair formation. As a specific component of keratin intermediate filaments in the inner root sheath (IRS) of hair follicles, it contributes to the structural integrity and proper development of hair. The protein's function in IRS-specific keratin networks makes it particularly significant for research into hair biology and related disorders. The provided fragment maintains the essential IF rod domain, enabling focused studies on this functional region's contribution to keratin filament assembly and hair follicle development.