Recombinant K2C3 protein (His tag)

Catalog Number	537517
Synonyms	65 kDa cytokeratin; Cytokeratin-3; CK-3; Keratin-3; K3; Type-II keratin Kb3
Species	Human
Expression System	E. coli
Accession	P12035
Molecular Weight	Predictes a molecular mass of 37.51 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 43 kDa band.

Product Information

Sequence Region	197-508
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>88%, 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 197-508 aa (P12035) 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-3 Fragment (aa 197-508) is a high-purity, stable protein fragment derived from the type II cytoskeletal keratin 3. This 312-amino acid fragment was computationally optimized for enhanced solubility and structural integrity, making it an ideal reagent for structural biology studies, biochemical assays, and keratin network research. Keratin, type II cytoskeletal 3 (KRT3) is a member of the keratin family of intermediate filament proteins that form the structural framework of epithelial cells. As a type II keratin, it typically pairs with specific type I keratins to form heterodimers that assemble into complex filament networks, providing mechanical strength and structural support to epithelial tissues. The full-length protein plays crucial roles in maintaining cellular integrity, regulating cell growth, and participating in stress response mechanisms. The recombinant fragment (aa 197-508) represents a stable, soluble unit that preserves key structural features while offering improved handling characteristics for experimental applications.