# Recombinant K2C80 protein (His tag)

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| **Catalog Number** | 540512 |
| **Synonyms** | Cytokeratin-80; CK-80; Keratin-80; K80; Type-II keratin Kb20 |
| **Species** | Human |
| **Expression System** | E. coli |
| **Accession** | Q6KB66 |
| **Molecular Weight** | Predictes a molecular mass of 37.89 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 44 kDa band. |

## Product Information

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| **Sequence Region** | 78-391 |
| **Form** | Lyophilized powder |
| **Formulation** | Lyophilized from sterile PBS, pH 7.4 |
| **Purity** | >85%, 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 78-391 aa (Q6KB66) were fused with 6His tag. |

## Storage & Handling

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| **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.<br>Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise. |

## Description

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| **Description** | This recombinant protein product features a stable and soluble fragment (residues 78-391) of human Keratin, type II cytoskeletal 80 (KRT80), designed for structural and biochemical studies. The fragment was computationally optimized to ensure high-quality performance in research applications.<br>Keratin, type II cytoskeletal 80 (KRT80) is a human protein classified as a type-II keratin, which forms part of the cytoskeleton in epithelial cells. While specific functional and subcellular localization details are not provided, type-II keratins generally contribute to cellular structural integrity, mechanical strength, and stress resistance. This fragment (residues 78-391) was selected based on structural predictions to represent a stable, soluble unit, facilitating investigations into keratin biology and related pathways. |