# Recombinant UBP35 protein (His tag)

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| **Catalog Number** | 543792 |
| **Synonyms** | Deubiquitinating enzyme 35; Ubiquitin thioesterase 35; Ubiquitin-specific-processing protease 35 |
| **Species** | Human |
| **Expression System** | E. coli |
| **Accession** | Q9P2H5 |
| **Molecular Weight** | Predictes a molecular mass of 25.41 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 26 kDa band. |

## Product Information

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| **Sequence Region** | 760-968 |
| **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 760-968 aa (Q9P2H5) 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 product is a recombinant protein fragment of Ubiquitin carboxyl-terminal hydrolase 35 (USP35), a human deubiquitinating enzyme involved in critical cellular processes such as cell cycle regulation and mitophagy. The fragment, spanning residues 760-968, was selected for its stability and solubility, making it ideal for structural and biochemical studies.<br>Ubiquitin carboxyl-terminal hydrolase 35 (USP35) is a deubiquitinase that plays key roles in cell cycle regulation, mitophagy, and endoplasmic reticulum stress. It inhibits TNFalpha-induced NF-kappa-B activation by stabilizing TNIP2 through deubiquitination and is essential during mitosis by regulating Aurora B/AURKB protein levels and other components of the chromosomal passenger complex. Additionally, USP35 controls mitochondrial degradation via mitophagy. The protein is localized in the cytoplasm and mitochondria, associating specifically with polarized mitochondria and translocating to the cytosol during mitophagy. This fragment provides a focused tool for investigating these functions without the complexities of the full-length protein. |