# Recombinant K1586 protein (His tag)

| | |
|---|---|
| **Catalog Number** | 548852 |
| **Synonyms** | E3 SUMO-protein transferase KIAA1586 |
| **Species** | Human |
| **Expression System** | E. coli |
| **Accession** | Q9HCI6 |
| **Molecular Weight** | Predictes a molecular mass of 38.06 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 38 kDa band. |

## Product Information

| | |
|---|---|
| **Sequence Region** | 132-452 |
| **Form** | Lyophilized powder |
| **Formulation** | Lyophilized from sterile PBS, pH 7.4 |
| **Purity** | >87%, 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 132-452 aa (Q9HCI6) 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.<br>Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise. |

## Description

| | |
|---|---|
| **Description** | This recombinant protein is a fragment (residues 132-452) of the human E3 SUMO-protein ligase KIAA1586, designed for structural and biochemical studies. It represents a stable and soluble unit of the enzyme, facilitating research into SUMOylation mechanisms.<br>The full-length E3 SUMO-protein ligase KIAA1586, encoded by the KIAA1586 gene in Homo sapiens, functions as an E3 SUMO-protein ligase. It promotes UBE2I/UBC9-mediated SUMO2 modification of target proteins, playing a key role in post-translational regulation through the SUMOylation pathway, which is critical for processes such as protein stability, localization, and interaction networks. The subcellular localization of this protein is not specified in the provided data. |