# Recombinant UBX2B protein (His tag)

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| **Catalog Number** | 540320 |
| **Synonyms** | NSFL1 cofactor p37; p97 cofactor p37 |
| **Species** | Human |
| **Expression System** | E. coli |
| **Accession** | Q14CS0 |
| **Molecular Weight** | Predictes a molecular mass of 29.88 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 32 kDa band. |

## Product Information

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| **Sequence Region** | 81-331 |
| **Form** | Lyophilized powder |
| **Formulation** | Lyophilized from sterile PBS, pH 7.4 |
| **Purity** | >86%, 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 81-331 aa (Q14CS0) 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** | Recombinant Human UBXN2B Fragment (81-331) is a high-purity protein preparation encompassing the critical SEP and UBX domains of UBX domain-containing protein 2B (NSFL1 cofactor p37). This fragment serves as an essential research tool for investigating domain-specific functions in Golgi and endoplasmic reticulum biogenesis, centrosomal regulation, and mitotic processes.<br>UBX domain-containing protein 2B, also known as NSFL1 cofactor p37 or p97 cofactor p37, functions as an adapter protein crucial for Golgi and endoplasmic reticulum biogenesis and maintenance. During interphase, it supports organelle maintenance, while facilitating reassembly following mitosis. The protein forms complexes with VCP that exhibit membrane fusion activity, requiring additional components including USO1-GOLGA2 tethering and BET1L. In mitotic regulation, UBXN2B collaborates with NSFL1C/p47 to control centrosomal levels of kinase AURKA/Aurora A, promoting its removal from centrosomes during prophase and regulating spindle orientation. The protein localizes to multiple cellular compartments including the nucleus, cytosol, endoplasmic reticulum, Golgi apparatus, and centrosome during specific mitotic phases, highlighting its diverse functional roles in cellular organization and division. |