Recombinant FBX4 protein (His tag)

Catalog Number	543864
Species	Human
Expression System	E. coli
Accession	Q9UKT5
Molecular Weight	Predictes a molecular mass of 39.65 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 40 kDa band.

Product Information

Sequence Region	57-387
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>89%, 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 57-387 aa (Q9UKT5) 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 F-box only protein 4 (FBXO4) fragment (amino acids 57-387) is a high-quality protein preparation ideal for studying SCF E3 ubiquitin ligase complex function and substrate recognition mechanisms. This 331-amino acid fragment represents a stable, soluble unit optimized for structural and biochemical applications. F-box only protein 4 serves as a substrate recognition component of the SCF (SKP1-CUL1-F-box protein) E3 ubiquitin-protein ligase complex, mediating ubiquitination and subsequent proteasomal degradation of target proteins. This protein promotes ubiquitination of key regulatory proteins including cyclin-D1 (CCND1), TERF1, and FXR1 (following phosphorylation by GSK3B), thereby playing crucial roles in protein degradation pathways. FBXO4 is primarily localized in the cytoplasm, where it functions as part of the ubiquitin-proteasome system to regulate protein turnover and maintain cellular homeostasis.