Recombinant SKP2 protein (His tag)

Catalog Number	538013
Synonyms	Cyclin-A/CDK2-associated protein p45; F-box protein Skp2; F-box/LRR-repeat protein 1; p45skp2
Species	Human
Expression System	E. coli
Accession	Q13309
Molecular Weight	Predictes a molecular mass of 38.90 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 39 kDa band.

Product Information

Sequence Region	94-424
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 94-424 aa (Q13309) 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 SKP2 (S-phase kinase-associated protein 2) Fragment (aa 94-424) is a high-purity protein designed for studying the F-box domain's role in substrate recognition within the SCF E3 ubiquitin ligase complex. This 331-amino acid fragment is an essential tool for researchers investigating cell cycle regulation, protein ubiquitination, and targeted degradation pathways. S-phase kinase-associated protein 2 (SKP2) serves as the substrate recognition component of the SCF E3 ubiquitin-protein ligase complex, mediating ubiquitination and proteasomal degradation of key regulatory proteins involved in cell cycle progression, signal transduction, and transcription. This F-box protein specifically recognizes phosphorylated targets including CDKN1B/p27kip, ORC1, RBL2, FOXO1, and multiple cyclin-dependent kinases, playing crucial roles in G1/S transition regulation and DNA damage response. SKP2 demonstrates dual localization in both cytoplasm and nucleus, where it participates in diverse cellular processes from cell migration to antiviral activity against hepatitis C virus. The provided fragment encompassing the F-box domain (aa 94-140) enables focused investigation of substrate recognition mechanisms without interference from full-length protein regulatory elements.