Recombinant FBX10 protein (His tag)

Catalog Number	548490
Species	Human
Expression System	E. coli
Accession	Q9UK96
Molecular Weight	Predictes a molecular mass of 31.31 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 31 kDa band.

Product Information

Sequence Region	406-678
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>90%, 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 406-678 aa (Q9UK96) 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 10 (FBXO10) fragment (residues 406-678) is a high-quality, stable protein designed for structural and biochemical studies. This fragment, derived from the substrate-recognition component of the SCF E3 ubiquitin ligase complex, offers a soluble unit ideal for investigating ubiquitination mechanisms and apoptosis regulation. The full-length F-box only protein 10 (FBXO10) functions as a substrate-recognition component of the SCF-type E3 ubiquitin ligase complex, playing a critical role in protein ubiquitination and degradation pathways. It mediates the ubiquitination and degradation of BCL2, an antiapoptotic protein, thereby contributing to apoptosis regulation by controlling BCL2 stability. Additionally, FBXO10 targets the receptor for advanced glycation end products (RAGE) for ubiquitination and lysosomal degradation and directly controls HGAL/GCSAM ubiquitination and degradation, which reduces B-cell receptor (BCR) signaling. The protein is localized in the cytoplasm, as supported by experimental evidence, underscoring its involvement in key cellular processes such as apoptosis and immune signaling.