Recombinant FBW10 protein (His tag)

Catalog Number	549782
Synonyms	F-box and WD-40 domain-containing protein 10; Ubiquitin ligase-specificity factor
Species	Human
Expression System	E. coli
Accession	Q5XX13
Molecular Weight	Predictes a molecular mass of 49.10 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 49 kDa band.

Product Information

Sequence Region	277-690
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 277-690 aa (Q5XX13) 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	This recombinant protein product features a stable and soluble fragment (amino acids 277-690) of the human F-box/WD repeat-containing protein 10 (FBXW10), a key ubiquitin ligase-specificity factor. Designed for structural and biochemical studies, this fragment enables researchers to investigate the protein's role in targeted protein degradation pathways with high reliability. The full-length F-box/WD repeat-containing protein 10 (FBXW10) functions as a probable substrate-recognition component of a SCF-type E3 ubiquitin ligase complex, which mediates the ubiquitination and subsequent proteasomal degradation of specific target proteins. Research indicates that overexpression of FBXW10 leads to the degradation of CBX5 and CBX1, highlighting its significance in regulating protein stability and cellular processes such as chromatin organization. This protein plays a critical role in ubiquitin-dependent proteolysis, making it essential for studies in protein turnover, signaling pathways, and disease mechanisms.