Recombinant UBQL2 protein (His tag)

Catalog Number	543824
Synonyms	Chap1; DSK2 homolog; Protein linking IAP with cytoskeleton 2; PLIC-2; hPLIC-2; Ubiquitin-like product Chap1/Dsk2
Species	Human
Expression System	E. coli
Accession	Q9UHD9
Molecular Weight	Predictes a molecular mass of 11.17 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 11 kDa band.

Product Information

Sequence Region	381-464
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>87%, 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 381-464 aa (Q9UHD9) 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 specific 84-amino acid fragment (residues 381-464) of human Ubiquilin-2 (UBQLN2), encompassing the STI1 4 functional domain. It serves as an essential tool for researchers investigating protein degradation pathways, autophagy regulation, and domain-specific molecular interactions. Ubiquilin-2 (UBQLN2) is a multifunctional regulatory protein that plays critical roles in protein quality control mechanisms, including the ubiquitin-proteasome system (UPS), endoplasmic reticulum-associated degradation (ERAD), and autophagy. It mediates proteasomal targeting of polyubiquitinated proteins through its UBA and ubiquitin-like domains, facilitates autophagosome maturation and LC3 processing, and regulates GPCR endocytosis. Ubiquilin-2 localizes to multiple cellular compartments including cytoplasm, nucleus, membranes, and autophagosomes, where it interacts with proteasomes and other regulatory complexes. The protein's involvement in these fundamental cellular processes makes it particularly significant for studying neurodegenerative diseases, protein aggregation disorders, and cellular stress response pathways.