Recombinant UB2Q2 protein (His tag)

Catalog Number	545558
Synonyms	E2 ubiquitin-conjugating enzyme Q2; Ubiquitin carrier protein Q2; Ubiquitin-protein ligase Q2
Species	Human
Expression System	E. coli
Accession	Q8WVN8
Molecular Weight	Predictes a molecular mass of 24.97 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 25 kDa band.

Product Information

Sequence Region	170-375
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 170-375 aa (Q8WVN8) 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 UBE2Q2 Fragment (aa 170-375) - A high-purity protein fragment containing the complete UBC core domain of Ubiquitin-conjugating enzyme E2 Q2, ideal for investigating ubiquitin transfer mechanisms and protein degradation pathways in vitro. Ubiquitin-conjugating enzyme E2 Q2 (UBE2Q2) is a crucial enzyme in the ubiquitin-proteasome system that accepts ubiquitin from E1 complexes and catalyzes its covalent attachment to target proteins. According to experimental evidence, this enzyme specifically catalyzes 'Lys-48'-linked polyubiquitination, a key signal for protein degradation. The full-length protein is primarily localized in the cytoplasm, where it participates in essential cellular protein turnover processes. The UBC core domain contained within this fragment represents the catalytic center responsible for ubiquitin transfer activity, making this recombinant protein an excellent tool for studying specific domain functions in ubiquitination cascades.