Recombinant UB2R2 protein (His tag)

Catalog Number	545278
Synonyms	E2 ubiquitin-conjugating enzyme R2; Ubiquitin carrier protein R2; Ubiquitin-conjugating enzyme E2-CDC34B; Ubiquitin-protein ligase R2
Species	Human
Expression System	E. coli
Accession	Q712K3
Molecular Weight	Predictes a molecular mass of 23.80 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 24 kDa band.

Product Information

Sequence Region	1-194
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>86%, 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 1-194 aa (Q712K3) 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 Ubiquitin-conjugating enzyme E2 R2 (UBE2R2) fragment (residues 1-194) from Homo sapiens, encompassing the complete UBC core domain. This high-purity protein is ideal for studying ubiquitination mechanisms, E2 enzyme activity, and protein degradation pathways in vitro. Ubiquitin-conjugating enzyme E2 R2 (EC 2.3.2.23) is a key enzyme in the ubiquitin-proteasome system that accepts ubiquitin from E1 activating enzymes and catalyzes its covalent attachment to target proteins through collaboration with E3 ubiquitin ligase complexes. It facilitates both monoubiquitination and Lys-48-linked polyubiquitination, working with various Cul1-RING and Cul2-RING E3 ligase complexes, and has been implicated in the degradation of katenin. The provided fragment contains the essential UBC core domain responsible for the enzyme's catalytic activity and ubiquitin transfer function.