Recombinant UB2J2 protein (His tag)

Catalog Number	540730
Synonyms	E2 ubiquitin-conjugating enzyme J2; Non-canonical ubiquitin-conjugating enzyme 2; NCUBE-2
Species	Human
Expression System	E. coli
Accession	Q8N2K1
Molecular Weight	Predictes a molecular mass of 22.72 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 23 kDa band.

Product Information

Sequence Region	1-184
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 1-184 aa (Q8N2K1) 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 Ubiquitin-conjugating enzyme E2 J2 (UBE2J2) fragment (amino acids 1-184) is a high-purity protein designed for studying ubiquitination mechanisms. This fragment fully encompasses the UBC core domain, making it an ideal tool for investigating E2 enzyme activity, endoplasmic reticulum-associated degradation (ERAD), and Lys-6-linked ubiquitination in controlled experimental settings. Ubiquitin-conjugating enzyme E2 J2 is a membrane-associated enzyme that catalyzes the covalent attachment of ubiquitin to target proteins, playing a crucial role in protein quality control. Located in the endoplasmic reticulum membrane as a single-pass type IV membrane protein, it functions in the selective degradation of misfolded membrane proteins through the ERAD pathway. Recent research also demonstrates its role in catalyzing 'Lys-6'-linked ubiquitination of NPRL2 in cooperation with the GATOR2 complex, highlighting its importance in ubiquitin signaling pathways and cellular protein homeostasis.