Recombinant UBE2O protein (His tag)

Catalog Number	545881
Synonyms	E3-independent; E2/E3 hybrid ubiquitin-protein ligase UBE2O; Ubiquitin carrier protein O; Ubiquitin-conjugating enzyme E2 O; Ubiquitin-conjugating enzyme E2 of 230 kDa; Ubiquitin-conjugating enzyme E2-230K; Ubiquitin-protein ligase O
Species	Human
Expression System	E. coli
Accession	Q9C0C9
Molecular Weight	Predictes a molecular mass of 27.91 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 28 kDa band.

Product Information

Amino Acid Sequence	MNHKVVFSVL EFAPSNHSFK KIEFQPPEAK KFFSTVRKEM ALLATSLPEG IMVKTFEDRM DLFSALIKGP TRTPYEDGLY LFDIQLPNIY PAVPPHFCYL SQCSGRLNPN LYDNGKVCVS LLGTWIGKGT ERWTSKSSLL QVLISIQGLI LVNEPYYNEA GFDSDRGLQE GYENSRCYNE MALIRVVQSM TQLVRRPPEV FEQEIRQHFS TGGWRLVNRI ESWLETHALL EKAQLEHHHH HH
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>90%, 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 928-1156 aa (Q9C0C9) were fused with C-terminal 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

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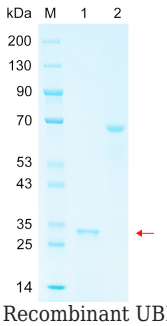
This recombinant protein product features a specific fragment (amino acids 928-1156) of the human E2/E3 hybrid ubiquitin-protein ligase UBE2O, encompassing the UBC core domain. It is engineered to support studies on ubiquitin-conjugating enzyme activity, protein ubiquitination mechanisms, and domain-specific functional assays, providing researchers with a precise tool for targeted experimental applications.
The full-length UBE2O protein is an E2/E3 hybrid ubiquitin-protein ligase with dual enzymatic activities, mediating monoubiquitination of target proteins such as SMAD6 to regulate BMP7 signaling and adipogenesis, and BAP1 to influence its subcellular localization. It also plays roles in modulating TRAF6-mediated NF-kappa-B activation and assisting in retrograde transport via 'Lys-63'-linked ubiquitination. UBE2O is primarily localized in the cytoplasm but can also be found in the nucleus, where it affects the localization of chromatin-associated proteins. This fragment, containing the UBC core dom

Validation

SDS-PAGE



Recombinant UBE2O protein (His tag) SDS-PAGE
M: Marker; Lane 1: UBE2O; Lane 2: BSA