Recombinant OTU7B protein (His tag)

Catalog Number	547491
Synonyms	Cellular zinc finger anti-NF-kappa-B protein; Cezanne; Zinc finger A20 domain-containing protein 1; Zinc finger protein Cezanne
Species	Human
Expression System	E. coli
Accession	Q6GQQ9
Molecular Weight	Predictes a molecular mass of 39.74 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 41 kDa band.

Product Information

Sequence Region	98-437
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 98-437 aa (Q6GQQ9) 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 OTU domain-containing protein 7B (OTUD7B) fragment (residues 98-437) is a high-purity protein that includes the complete OTU domain. This fragment is engineered for studying deubiquitinase activity, specifically targeting 'Lys-11', 'Lys-48', and 'Lys-63'-linked polyubiquitin chains, making it an essential tool for investigating NF-kappa-B pathway regulation and mTOR complex assembly. The full-length OTU domain-containing protein 7B (OTUD7B), also known as Cezanne, is a key deubiquitinating enzyme that negatively regulates the non-canonical NF-kappa-B pathway by deubiquitinating TRAF3, thereby preventing over-activation and modulating B-cell and T-cell responses. It also deubiquitinates ZAP70 to regulate T cell receptor signaling and MLST8 to influence mTORC1 and mTORC2 assembly. Located in both the cytoplasm and nucleus, OTUD7B shuttles between these compartments in a XPO1/CRM1-dependent manner, playing critical roles in immune regulation, cellular signaling, and homeostasis.