Recombinant JOS2 protein (His tag)

Catalog Number	540810
Synonyms	Josephin domain-containing protein 2
Species	Human
Expression System	E. coli
Accession	Q8TAC2
Molecular Weight	Predictes a molecular mass of 22.41 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 22 kDa band.

Product Information

Sequence Region	1-188
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>89%, 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 1-188 aa (Q8TAC2) 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 Josephin-2 (JOSD2) fragment (residues 1-188), encompassing the complete Josephin domain, offers a high-purity tool for investigating deubiquitinating enzyme activity and ubiquitin chain cleavage mechanisms in vitro. Josephin-2, encoded by the JOSD2 gene in humans, functions as a deubiquitinating enzyme that preferentially cleaves Lys-63-linked poly-ubiquitin chains and demonstrates secondary activity toward Lys-48-linked chains. This cytoplasmic protein localizes to the cytosol, where it likely participates in ubiquitin-dependent signaling pathways. The provided fragment retains the full Josephin domain, enabling targeted studies of its catalytic specificity and regulatory roles in ubiquitin processing.