Recombinant TP4AP protein (His tag)

Catalog Number	543251
Synonyms	Trp4-associated protein; Trpc4-associated protein; Protein TAP1; TNF-receptor ubiquitous scaffolding/signaling protein; Protein TRUSS
Species	Human
Expression System	E. coli
Accession	Q8TEL6
Molecular Weight	Predictes a molecular mass of 50.31 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 50 kDa band.

Product Information

Sequence Region	383-797
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 383-797 aa (Q8TEL6) 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	This recombinant protein is a 415-amino acid fragment (residues 383-797) of human Short transient receptor potential channel 4-associated protein (Trpc4-associated protein). It represents a stable and soluble unit ideal for investigating the protein's role in ubiquitin-mediated degradation pathways and cell cycle regulation, supporting structural and biochemical studies. The full-length Short transient receptor potential channel 4-associated protein (Trpc4-associated protein), encoded by the TRPC4AP gene, functions as a substrate-recognition component of a DCX E3 ubiquitin-protein ligase complex. This complex is critical for cell cycle control by mediating the polyubiquitination and degradation of target proteins like MYC through the DesCEND pathway, which recognizes C-terminal arginine motifs. Additionally, the protein participates in NFKB1 activation in response to TNFRSF1A ligation, JNK activation via TRAF2 interaction, and modulation of endoplasmic reticulum calcium storage. It is localized in the perinuclear region of the cytoplasm, underscoring its role in intracellular signaling and protein homeostasis.