Recombinant STRAP protein (His tag)

Catalog Number	541612
Synonyms	MAP activator with WD repeats; UNR-interacting protein; WD-40 repeat protein PT-WD
Species	Human
Expression System	E. coli
Accession	Q9Y3F4
Molecular Weight	Predictes a molecular mass of 35.46 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 36 kDa band.

Product Information

Sequence Region	1-307
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 1-307 aa (Q9Y3F4) 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 product is a recombinant fragment of Serine-threonine kinase receptor-associated protein (STRAP) from Homo sapiens, encompassing amino acids 1-307. This stable and soluble fragment is ideal for structural studies and biochemical assays, offering researchers a reliable tool to investigate STRAP's roles in snRNP assembly, TGF-beta signaling regulation, and PDPK1 kinase activation. STRAP (UniProt ID: Q9Y3F4) is a multifunctional protein involved in the assembly of small nuclear ribonucleoproteins (snRNPs) through its interaction with the SMN complex, which is essential for spliceosome formation and pre-mRNA splicing. It negatively regulates TGF-beta signaling and positively enhances PDPK1 kinase activity by promoting autophosphorylation and reducing PDPK1 association with 14-3-3 proteins. STRAP is predominantly localized in the cytoplasm but is also found in the nucleus, reflecting its diverse cellular functions in key signaling and RNA processing pathways.