Recombinant CSN4 protein (His tag)

Catalog Number	543496
Synonyms	SGN4; Signalosome subunit 4; JAB1-containing signalosome subunit 4
Species	Human
Expression System	E. coli
Accession	Q9BT78
Molecular Weight	Predictes a molecular mass of 47.80 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 50 kDa band.

Product Information

Sequence Region	2-406
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>88%, 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 2-406 aa (Q9BT78) 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 COP9 Signalosome Complex Subunit 4 (SGN4) Fragment (aa 2-406) - A high-quality research tool designed for studying the PCI domain functionality within the essential COP9 signalosome complex. This fragment encompasses the complete PCI domain, making it ideal for investigating protein degradation regulation, ubiquitin pathway dynamics, and cellular signaling mechanisms. The full-length COP9 signalosome complex subunit 4 (COPS4) is a critical component of the COP9 signalosome complex (CSN), which serves as a master regulator of the ubiquitin conjugation pathway. This complex mediates the deneddylation of cullin subunits in SCF-type E3 ligase complexes, thereby modulating ubiquitin ligase activity. The CSN complex participates in multiple cellular processes including phosphorylation of key regulatory proteins such as p53/TP53, c-jun/JUN, and IkappaBalpha/NFKBIA, influencing their stability and degradation through the ubiquitin system. COPS4 localizes to multiple cellular compartments including the cytoplasm, nucleus, and synaptic vesicles, reflecting its diverse functional roles in cellular regulation and signaling pathways. The fragment provided (aa 2-406) specifically targets the PCI domain, enabling focused investigation of domain-specific functions within this critical regulatory complex.