Recombinant CSN7B protein (His tag)

Catalog Number	548267
Synonyms	SGN7b; Signalosome subunit 7b; JAB1-containing signalosome subunit 7b
Species	Human
Expression System	E. coli
Accession	Q9H9Q2
Molecular Weight	Predictes a molecular mass of 27.48 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 28 kDa band.

Product Information

Sequence Region	2-232
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>85%, 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 2-232 aa (Q9H9Q2) 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 7b (SGN7b) Fragment (aa 2-232) - A high-purity protein fragment encompassing the complete PCI domain, designed for studying the specific functional roles of this essential regulatory domain within the COP9 signalosome complex. The full-length COP9 signalosome complex subunit 7b (COPS7B) is a crucial component of the COP9 signalosome complex (CSN), which serves as an essential 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 is also involved in phosphorylation events affecting key cellular regulators including p53/TP53, JUN, I-kappa-B-alpha/NFKBIA, ITPK1, and IRF8/ICSBP, potentially through associations with CK2 and PKD kinases. These phosphorylation events can either promote or protect against degradation by the ubiquitin system, highlighting the complex's critical role in cellular regulation. The protein localizes to both the cytoplasm and nucleus, reflecting its broad involvement in various cellular and developmental processes.