Recombinant CSN3 protein (His tag)

Catalog Number	539241
Synonyms	SGN3; Signalosome subunit 3; JAB1-containing signalosome subunit 3
Species	Human
Expression System	E. coli
Accession	Q9UNS2
Molecular Weight	Predictes a molecular mass of 49.40 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 49 kDa band.

Product Information

Sequence Region	2-423
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 2-423 aa (Q9UNS2) 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 3 (SGN3) Fragment (aa 2-423) is a high-purity protein designed for studying the PCI domain's role in ubiquitin pathway regulation and cellular signaling processes. The COP9 signalosome complex (CSN), where COPS3 (also known as SGN3 or JAB1-containing signalosome subunit 3) serves as a key component, is an essential regulator of the ubiquitin conjugation pathway. This complex mediates deneddylation of cullin subunits in SCF-type E3 ligase complexes, thereby modulating ubiquitin ligase activity. Additionally, CSN participates in phosphorylation events involving critical proteins such as p53/TP53, c-jun/JUN, IkappaBalpha/NFKBIA, and others through associated kinases like CK2 and PKD. These phosphorylation activities can either promote or protect against degradation by the ubiquitin system, highlighting the complex's central role in cellular regulation. COPS3 localizes to both the cytoplasm and nucleus, reflecting its involvement in diverse cellular and developmental processes.