

## Recombinant Human COPS5 Protein (A2-T257), Tag Free

Cat. No. COPS5-0864H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human COPS5(A2-T257) Protein was expressed in E. coli.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	A2-T257
<b>Description</b>	<p>Probable protease subunit of the COP9 signalosome complex (CSN), a complex involved in various cellular and developmental processes. The CSN complex is an essential regulator of the ubiquitin (Ubl) conjugation pathway by mediating the deneddylation of the cullin subunits of the SCF-type E3 ligase complexes, leading to decrease the Ubl ligase activity of SCF-type complexes such as SCF, CSA or DDB2. The complex is also involved in phosphorylation of p53/TP53, c-jun/JUN, IκappaBα/NFKBIA, ITPK1 and IRF8, possibly via its association with CK2 and PKD kinases. CSN-dependent phosphorylation of TP53 and JUN promotes and protects degradation by the Ubl system, respectively. In the complex, it probably acts as the catalytic center that mediates the cleavage of Nedd8 from cullins. It however has no metalloprotease activity by itself and requires the other subunits of the CSN complex. Interacts directly with a large number of proteins that are regulated by the CSN complex, confirming a key role in the complex. Promotes the proteasomal degradation of BRSK2.</p>
<b>Form</b>	Liquid

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<b>Endotoxin</b>	< 0.01 EU per µg of the protein
<b>Purity</b>	90%
<b>Stability</b>	Samples are stable for up to twelve months from date of receipt at -20 to -80 centigrade.
<b>Storage</b>	Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
<b>Storage Buffer</b>	50 mM Tris-HCl (pH7.5), 200 mM NaCl, 20% glycerol
<b>Shipping</b>	It is shipped out with blue ice.

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">COPS5 COP9 constitutive photomorphogenic homolog subunit 5 (Arabidopsis) [ Homo sapiens (human) ]</a>
<b>Official Symbol</b>	<a href="#">COPS5</a>
<b>Synonyms</b>	COPS5; COP9 constitutive photomorphogenic homolog subunit 5 (Arabidopsis); COP9 (constitutive photomorphogenic, Arabidopsis, homolog) subunit 5; COP9 signalosome complex subunit 5; CSN5; JAB1; MOV 34; SGN5; 38 kDa Mov34 homolog; signalosome subunit 5; jun activation domain-binding protein 1; MOV-34; MGC3149;
<b>Gene ID</b>	<a href="#">10987</a>
<b>mRNA Refseq</b>	<a href="#">NM_006837</a>

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**Protein Refseq** NP\_006828

**MIM** 604850

**UniProt ID** Q92905

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