

Recombinant Mouse Cops5 Protein, Myc/DDK-tagged

Cat. No. Cops5-2263M Lot. No. (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length COP9 signalosome subunit 5 (Cops5), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	<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. Promotes the proteasomal degradation of BRSK2. 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.</p>
Molecular Mass	38 kDa

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Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade after receiving vials.
Concentration	>50 µg/mL as determined by microplate BCA method
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name	Cops5 COP9 signalosome subunit 5 [Mus musculus (house mouse)]
Official Symbol	Cops5
Synonyms	COPS5; COP9 (constitutive photomorphogenic) homolog, subunit 5 (Arabidopsis thaliana); COP9 signalosome complex subunit 5; COP9 complex S5; Jun coactivator; signalosome subunit 5; JUN activation binding protein; kip1 C-terminus-interacting protein 2; jun activation domain-binding protein 1; COP9 (constitutive photomorphogenic), subunit 5; CSN5; Jab1; Sgn5; Mov34; AI303502
Gene ID	26754
mRNA Refseq	NM_013715
Protein Refseq	NP_038743
UniProt ID	O35864

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