

Recombinant human COPS7A protein

Catalog Number: ATGP2652

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-275aa

UniProt No.

Q9UBW8

NCBI Accession No.

NP_001157566

Alternative Names

COP9 signalosome complex subunit 7a, COP9 signalosome complex subunit 7a, CSN7A

PRODUCT SPECIFICATION

Molecular Weight

32.7 kDa (298aa)

Concentration

0.5mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.4M urea, 10% glycerol

Purity

> 80% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE, Denatured

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

COPS7A is a component 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 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, JuN, I-kappa-B-alpha/NFKBIA, ITPK1 and IRF8/ICSBP, possibly via its association with CK2 and PKD kinases. CSN-dependent phosphorylation of TP53 and JuN promotes and protects degradation

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by the ubl system, respectively. Recombinant human COPS7A protein, fused to His-tag at N-terminus, was expressed in E. coli.

Amino acid Sequence

MGSSHHHHHHH SSGLVPRGSH MGSMSAEVKV TGQNQEQLL LAKSAKGAAL ATLIHQVLEA PGVYVFGELL DMPNVRELAE
SDFASTFRLL TVFAYGTYAD YLAEARNLPP LTEAQKNKLR HLSVVTAAK VKCIPYAVLL EALALRNVRQ LEDLVIEAVY
ADVLRGSLDQ RNQRLEVDYS IGRDIQRQDL SAIARTLQEW CVGCEVVLSG IEEQVSRANQ HKEQQLGLKQ QIESEVANLK
KTIKVTAAA AAATSQDPEQ HLTELREPAP GTNQRQPSKK ASKGKGLRGS AKIWSKSN

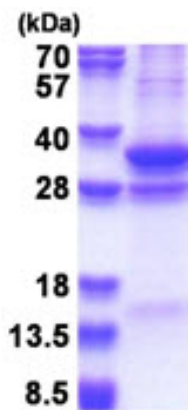
General References

Wolf DA, Zhou C, et al. (2003). Nat Cell Biol. 5(12):1029-33.

Wei N, Tsuge T, et al. (1998). Curr Biol. 8(16):919-22.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3ug)