
Product Data Sheet

Product Name: COPS7A Human
 Cat. No.: GP23209
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	COP9 Signalosome Subunit 7A; COPS7A; Dermal Papilla-Derived Protein 10; CSN7A; SGN7a; JAB1-Containing Signalosome Subunit 7a; COP9 Complex Subunit 7a; COP9 Constitutive Photomorphogenic Homolog Subunit 7A; COP9 Signalosome Complex Subunit 7a; DERP10; Signalosome Subunit 7a.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH 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.		
Formulation	The COPS7A solution (0.5mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.4M Urea and 10% glycerol.		

Introduction

COP9 Signalosome Subunit 7A (COPS7A) is a component of the COP9 signalosome complex (CSN), a complex involved in a variety of cellular and developmental processes. The CSN complex is a vital regulator of the ubiquitin (Ubl) conjugation pathway by mediating the deneddylation of the cullin subunits of SCF-type E3 ligase complexes, thus leading to decrease in the Ubl ligase activity of SCF-type complexes such as SCF, CSA or DDB2. This complex is also involved in phosphorylation of p53/TP53, JUN, I-kappa-B-alpha/NFKBIA, ITPK1 and IRF8/ICSBP, probably through its association with CK2 and PKD kinases. CSN-dependent phosphorylation of TP53 and JUN stimulates and protects degradation by the Ubl system, respectively.

Stability

Caution: Product has not been fully validated for medical applications. For research use only.

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Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

COPS7A Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 298 amino acids (1-275) and having a molecular mass of 32.7 kDa. COPS7A is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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