Recombinant human COPE protein

Catalog Number: ATGP2872

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-308aa

UniProt No.
O14579

NCBI Accession No.
NP_009194

Alternative Names
Coatomer subunit epsilon, Coatomer subunit epsilon, Coatomer protein complex, subunit epsilon, epsilon-COP

PRODUCT SPECIFICATION

Molecular Weight
36.9 kDa (331aa) confirmed by MALDI-TOF

Concentration
0.25mg/ml (determined by Bradford assay)

Formulation
Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 20% glycerol, 1mM DTT

Purity
> 90% by SDS-PAGE

Tag
His-Tag

Application
SDS-PAGE

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
COPE is an epsilon subunit of coatomer protein complex. Coatomer is a cytosolic protein complex that binds to dilysine motifs and reversibly associates with Golgi non-clathrin-coated vesicles. It is required for budding from Golgi membranes, and is essential for the retrograde Golgi-to-ER transport of dilysine-tagged proteins. Coatomer complex consists of at least the alpha, beta, beta', gamma, delta, epsilon and zeta subunits. Alternatively spliced transcript variants encoding different isoforms have been identified. Recombinant human COPE protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

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Amino acid Sequence

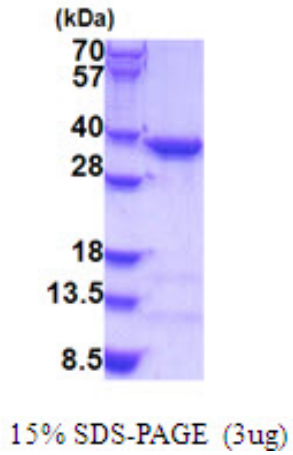
MGSSHHHHHH SSGLVPRGSH MGSMAPPAPG PASGGSGEVD ELFDVKNAFY IGSYQQCINE AQRVKLSSPE RDVERDVFLY RAYLAQRKFG VVLDEIKPSS APELQAVRMF ADYLAHESRR DSIVAELDRE MSRSVDVTNT TFLLMAASIY LHDQNPDAAL RALHQGDSLE CTAMTVQILL KLDRLDLARK ELKRMQDLDE DATLTQLATA WVSLATGGEK LQDAYYIFQE MADKCSPTLL LLNGQAACHM AQGRWEAAEG LLQEALDKDS GYPETLVNLI VLSQHLGKPP EVTNRYLSQL KDAHRSHPFI KEYQAKENDF DRLVLQYAPS A

General References

Shima D.T., et al. (1999) Curr. Biol. 9:821-824

DATA

SDS-PAGE



15% SDS-PAGE (3ug)

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