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**Product Data Sheet**


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Product Name: COPE Human  
 Cat. No.: GP23208  
 Batch No.: 1

**Product Data**

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Coatomer Protein Complex; Subunit Epsilon; Epsilon-CoatProtein; Epsilon-COP; Coatomer Epsilon Subunit; Coatomer Subunit Epsilon; EpsilonCoat Protein; Coatomer subunit epsilon.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSMAPPAPG PASGGSGEVD ELFDVKNAFY IGSYQQCINE AQRVKLSSPERDVERDVFLY RAYLAQRKFG VVLDEIKPSS APELQAVRMF ADYLAHESRR DSIVAELDRE MSRSVDVTNTTFLMAASIY LHDQNPDAAL RALHQGDSLE CTAMTVQILLKLDRLDLARK ELKRMQDLDE DATLTQLATA WVSLATGGEK LQDAYYIFQEMADKCSPTLL LLNGQAACHM AQGRWEAAEG LLQEALDKDS GYPETLVNLI VLSQHLGKPP EVTNRYSQLKDAHRSHPI KEYQAKENDF DRLVLQYAPS A.		
Formulation	COPE protein solution (0.25 mg/ml) containing Phosphatebuffered saline (pH7.4),20% glycerol and 1mM DTT.		

**Introduction**

Coatomer Protein Complex Subunit Epsilon, also known as COPE is an epsilon subunit of coatomer protein complex. Coatomer is a cytosolic protein complex which binds to dilysine motifs and reversibly links with Golginon-clathrin-coated vesicles. COPE is necessary for budding from Golgi membranes, and is also essential for the retrograde Golgi-to-ER transport of dilysine-tagged proteins. Coatomer complex contain at least the alpha, beta, beta', gamma, delta, epsilon and zeta subunits. Alternatively spliced transcript variants encoding dissimilar isoforms have been identified for COPE.

**Stability**

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%

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

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HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

COPE Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 331 amino acids (1-308 a.a) and having a molecular mass of 36.9kDa. COPE is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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