

COPZ1 Protein, Rat (His)

Cat. No.:	HY-P76847
Synonyms:	Coatomer subunit zeta-1; Zeta-1-coat protein; Zeta-1 COP; COPZ; CGI-120
Species:	Rat
Source:	E. coli
Accession:	P61923 (M1-R177)
Gene ID:	22818
Molecular Weight:	Approximately 22.4 kDa.

PROPERTIES

AA Sequence	<p> M E A L I L E P S L Y T V K A I L I L D N D G D R L F A K Y Y D D T Y P S V K E Q K A F E K N I F N K T H R T D S E I A L L E G L T V V Y K S S I D L Y F Y V I G S S Y E N E L M L M A V L N C L F D S L S Q M L R K N V E K R A L L E N M E G L F L A V D E I V D G G V I L E S D P Q Q V V H R V A L R G E D V P L T E Q T V S Q V L Q S A K E Q I K W S L L R </p>
Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.2 µm filtered solution of 50 mM Tris, 50 mM Arg, pH 8.5. or 50 mM Tris-HCL, 300 mM NaCl, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	<p>The COPZ1 protein is a crucial component of the coatomer, a cytosolic protein complex with a pivotal role in intracellular protein transport. This complex binds to dilysine motifs and forms reversible associations with Golgi non-clathrin-coated vesicles, facilitating the transport of biosynthetic proteins from the endoplasmic reticulum (ER) through the Golgi to the trans-Golgi network. The coatomer complex is indispensable for the budding of vesicles from Golgi membranes and plays a vital role in the retrograde transport of dilysine-tagged proteins from the Golgi to the ER. The zeta subunit of the coatomer is implicated in regulating coat assembly, thereby influencing the rate of biosynthetic protein transport due to its association-dissociation properties within the coatomer complex. This oligomeric complex comprises at least the alpha, beta, beta',</p>
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gamma, delta, epsilon, and zeta subunits.

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

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