

COMMD9 Protein, Human (His)

Cat. No.:	HY-P76846
Synonyms:	COMM domain-containing protein 9; HSPC166
Species:	Human
Source:	E. coli
Accession:	Q9P000 (M1-K198)
Gene ID:	29099
Molecular Weight:	Approximately 24 kDa

PROPERTIES

AA Sequence	M A A L T A E H F A A L Q S L L K A S S K D V V R Q L C Q E S F S S S A L G L K K L L D V T C S S L S V T Q E E A E E L L Q A L H R L T R L V A F R D L S S A E A I L A L F P E N F H Q N L K N L L T K I I L E H V S T W R T E A Q A N Q I S L P R L V D L D W R V D I K T S S D S I S R M A V P T C L L Q M K I Q E D P S L C G D K P S I S A V T V E L S K E T L D T M L D G L G R I R D Q L S A V A S K
Biological Activity	Data is not available.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of 50 mM Tris-HCL, 300 mM NaCl, pH 7.4, 5% trehalose, 5% mannitol and 0.01% Tween80.
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	The COMMD9 protein is implicated in modulating the activity of cullin-RING E3 ubiquitin ligase (CRL) complexes, suggesting its role in the regulation of ubiquitin-dependent protein degradation pathways. Additionally, it may down-regulate the activation of NF-kappa-B, indicating its involvement in modulating immune and inflammatory responses. In epithelial cells, COMMD9 plays a role in the modulation of Na(+) transport by regulating the apical cell surface expression of amiloride-
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sensitive sodium channel (ENaC) subunits. The protein interacts with RELB and NFkB1/p105, underscoring its potential involvement in NF-kappa-B signaling pathways. Furthermore, COMMD9 engages with CCDC22, CCDC93, SCNN1B, and CUL1, pointing towards its diverse interactions with various proteins involved in cellular processes such as protein degradation, ion transport, and immune response. These findings highlight the versatile and regulatory functions of COMMD9 within cellular pathways.

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

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