CHODL Protein, Mouse (HEK293, His)

Cat. No.:	HY-P76256
Synonyms:	Chondrolectin; Transmembrane protein MT75; C21orf68
Species:	Mouse
Source:	HEK293
Accession:	Q9CXM0 (R22-N216)
Gene ID:	246048
Molecular Weight:	Approximately 30-33 kDa due to the glycosylation.

PROPERTIES

AA Sequence	R R V V S G Q K V C F A D V K H P C Y K M A Y F H E L S S R V S F Q E A R L A C E S E G G V L L S L E N E A E Q K L I E S M L Q N L T K P G T G I S D G D F W I G L L R S G D G Q T S G A C P D L Y Q W S D G S S S Q F R N W Y T D E P S C G S E K C V V M Y H Q P T A N P G L G G P Y L Y Q W N D D R C N M K H N Y I C K Y E P E I H P T E P A E K P Y L T N Q P E E T H E N V V V T E A G I I P N
Biological Activity	Measured by its binding ability in a functional ELISA. When Recombinant Mouse CHODL Protein is immobilized at 1μg/mL (100 μL/well) can bind Recombinant Human IGFBP-5. The ED_{50} for this effect is 29.56 ng/mL.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O. 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	CHODL protein appears to be a significant contributor to the intricate processes underlying nervous system development, particularly in the realms of neurite outgrowth and elongation. Evidence suggests its potential involvement in guiding motor axon growth, emphasizing its role in shaping the structural framework of the nervous system. Through interactions with proteins like RABGGTB, CHODL likely engages in intricate molecular mechanisms that influence axon development and

navigation. The comprehensive understanding of CHODL's functions, especially its impact on neurite dynamics and motor axon guidance, holds promise for unraveling key aspects of neural development and may contribute to insights into therapeutic strategies targeting nervous system disorders.

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