Chordin-like 1/CHRDL1 Protein, Human (N-His)

Cat. No.:	HY-P77896A
Synonyms:	Neuralin-1; Neurogenesin-1; Ventroptin; CHRDL1; NRLN1; CHL; Chordin-like 1; CRDL1; dA141H5.1; VOPT
Species:	Human
Source:	E. coli
Accession:	Q9BU40 (E28-C456)
Gene ID:	91851
Molecular Weight:	Approximately 50 kDa

PROPERTIES

Biological Activity	Immobilized Human CHRDL1, His Tag at 1μg/ml (100μl/Well) on the plate. Dose response curve for Anti-CHRDL1 Antibody, hFc Tag with the EC_{50} of 9.4 ng/ml determined by ELISA.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.22 μm filtered solution of 4 mM HCl, pH 4.0. Normally 8 % trehalose is added as protectant before lyophilization.
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.
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 Chordin-like 1 (CHRDL1) protein serves as an antagonist to BMP4 by binding to it, thus impeding its interaction with receptors. This interaction leads to a shift in the fate commitment of neural stem cells, steering them away from gliogenesis towards neurogenesis. CHRDL1's involvement in preventing the adoption of a glial fate contributes to the neuronal differentiation of neural stem cells in the brain. Beyond its role in neural development, CHRDL1 may play a crucial part in dorsoventral axis formation and embryonic bone development (By similarity). Additionally, CHRDL1 is implicated in regulating retinal angiogenesis by modulating BMP4 actions in endothelial cells. Its participation in anterior segment eye development underscores its multifaceted role in various developmental processes.

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

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