

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

Cat. No.:	HY-P77896
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 1 µg/mL (100µl/Well) on the plate. Dose response curve for Anti-CHRDL1 Antibody, hFc Tag with the EC ₅₀ of 33.8 ng/mL determined by ELISA.
Appearance	Solution.
Formulation	Supplied as a 0.22 µm filtered solution of 4 mM HCl, pH 4.0.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	N/A.
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

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

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