

# Active Recombinant Human Chordin-Like 1, His-tagged

Cat. No. CHRDL1-3189H Lot. No. (See product label)

## SPECIFICATION

|                             |  |
|-----------------------------|--|
| <b>Product Overview</b>     | Recombinant Human CHRDL1 (Glu22-Cys450) fused with a Cterminal and 10His tag, was expressed in Mouse NSO Cells.  |
| <b>Species</b>              | Human  |
| <b>Source</b>               | Mammalian Cells  |
| <b>ProteinLength</b>        | 22-450 a.a.  |
| <b>Description</b>          | This gene encodes an antagonist of bone morphogenetic protein 4. The encoded protein may play a role in topographic retinotectal projection and in the regulation of retinal angiogenesis in response to hypoxia. Alternatively spliced transcript variants encoding different isoforms have been described. |
| <b>Molecular Mass</b>       | The protein has a calculated molecular mass of 50 kDa. The apparent molecular mass of the recombinant protein is approximately 60 KDa in SDS-PAGE under reducing conditions.   |
| <b>Predicted N terminal</b> | Glu22  |
| <b>Formulation</b>          | Lyophilized from a 0.2 µ filtered solution in Acetonitrile and TFA.  |
| <b>Purity</b>               | >90%, by SDS-PAGE under reducing conditions and visualized by silver stain.  |
| <b>Activity</b>             | Measured by its ability to inhibit BMP-4-induced activity in MC3T3-E1 mouse  |

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preosteoblast cells. The ED50 for this effect is typically 0.7 - 3.5 µg/mL in the presence of 50 ng/mL rhBMP-4 and 1 µg/mL of rmTSG.

**Reconstitution** Reconstitute at 200 µg/mL in sterile 4 mM HCl.

**EndotoxinLevel** < 0.01 EU per 1 µg of the protein by the LAL method.

**Storage** 12 months from date of receipt, 20 to 70 °C as supplied. Avoid repeated freezethaw cycles.

**OfficialSymbol** CHRDL1

## GENE INFORMATION

**Gene Name** [CHRDL1 chordin-like 1 \[ Homo sapiens \]](#)

**Synonyms** chordin-like 1; CHL; VOPT; NRLN1; dA141H5.1; CHRDL1; chordin-like protein 1; neuralin 1; neuralin-1; ventroptin; neurogenesin-1; OTTHUMP00000023853; OTTHUMP00000023854; OTTHUMP00000216338; Neurogenesin-1; Ventroptin; Neuralin-1

**Gene ID** [91851](#)

**mRNA Refseq** [NM\\_145234](#)

**Protein Refseq** [NP\\_660277](#)

**MIM** [300350](#)

**UniProt ID** [Q9BU40](#)

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|                            |   |
|----------------------------|---|
| <b>Chromosome Location</b> | Xq23  |
| <b>Pathway</b>             | Signaling by BMP; Signal Transduction   |
| <b>Function</b>            | BMP signaling pathway; cell differentiation; multicellular organismal development; nervous system development; ossification |

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