

Active Recombinant Human Chordin-Like 1, His-tagged

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

SPECIFICATION

Product Overview	Recombinant Human CHRDL1 (Glu22-Cys450) fused with a Cterminal and 10His tag, was expressed in Mouse NSO Cells.
Species	Human
Source	Mammalian Cells
ProteinLength	22-450 a.a.
Description	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.
Molecular Mass	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.
Predicted N terminal	Glu22
Formulation	Lyophilized from a 0.2 µ filtered solution in Acetonitrile and TFA.
Purity	>90%, by SDS-PAGE under reducing conditions and visualized by silver stain.
Activity	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	CHRD1

GENE INFORMATION

Gene Name	CHRD1 chordin-like 1 [Homo sapiens]
Synonyms	chordin-like 1; CHL; VOPT; NRLN1; dA141H5.1; CHRD1; 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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Chromosome Location	Xq23
Pathway	Signaling by BMP; Signal Transduction
Function	BMP signaling pathway; cell differentiation; multicellular organismal development; nervous system development; ossification

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