

## CHRD2 Protein, Mouse (HEK293, His)

<b>Cat. No.:</b>	HY-P70135
<b>Synonyms:</b>	rMuChordin-like protein 2/CHRD2, His; Chordin-like protein 2; BNF-1; CHRD2; chordin-like 2; chordin-like protein 2
<b>Species:</b>	Mouse
<b>Source:</b>	HEK293
<b>Accession:</b>	Q8VEA6 (Q24-L426)
<b>Gene ID:</b>	69121
<b>Molecular Weight:</b>	57-73 kDa

### PROPERTIES

<b>AA Sequence</b>	<p>           Q A R S R S G K V C    L F G E K I Y T P G    Q S W H P Y L E P Q    G T I Y C V R C T C            S E N G H V N C Y R    L R C P P L H C S Q    P V M E P Q Q C C P    R C V D P H V P S G            L R V P L K S C Q L    N E T T Y Q H G E I    F S A Q E L F P A R    L S N Q C V L C S C            I E G H T Y C G L M    T C P E P S C P T T    L P L P D S C C Q T    C K D R T T E S S T            E E N L T Q L Q H G    E R H S Q D P C S E    R R G P S T P A P T    S L S S P L G F I P            R H F Q S V G M G S    T T I K I I L K E K    H K K A C T H N G K    T Y S H G E V W H P            T V L S F G P M P C    I L C T C I D G Y Q    D C H R V T C P T Q    Y P C S Q P K K V A            G K C C K I C P E D    E A E D D H S E V I    S T R C P K V P G Q    F H V Y T L A S P S            P D S L H R F V L E    H E A S D Q V E M Y    I W K L V K G I Y H    L V Q I K R V R K Q            D F Q K E A Q N F R    L L T G T H E G Y W    T V F L A Q T P E L    K V T A S P D K V T            K T L         </p>
<b>Biological Activity</b>	Measured by its ability to inhibit BMP-4-induced alkaline phosphatase production by ATDC5 mouse chondrogenic cells. The IC <sub>50</sub> for this effect is 51.19 ng/mL in the presence of 150 ng/mL of rhBMP-4.
<b>Appearance</b>	Lyophilized powder.
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4 or 20 mM PB, 150 mM NaCl, pH 7.4.
<b>Endotoxin Level</b>	<1 EU/µg, determined by LAL method.
<b>Reconstitution</b>	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
<b>Storage &amp; Stability</b>	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.
<b>Shipping</b>	Room temperature in continental US; may vary elsewhere.

## DESCRIPTION

### Background

CHRD2 Protein is implicated in tumor angiogenesis, potentially acting as a negative regulator of BMPs activity by obstructing their interaction with respective receptors. It exhibits a significant impact on cartilage formation and regeneration, suggesting a role in modulating the rate of matrix accumulation from immature mesenchymal cells. Furthermore, CHRD2 may play a regulatory role during myoblast and osteoblast differentiation and maturation processes. Notably, CHRD2 interacts with various members of the BMP family, including GDF5, INHBA, BMP2, BMP4, BMP5, BMP6, and BMP7, indicating its involvement in diverse cellular and developmental pathways.

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

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