

## CRELD1 Protein, Mouse (HEK293, His)

<b>Cat. No.:</b>	HY-P76287
<b>Synonyms:</b>	Protein disulfide isomerase CRELD1; Cysteine-rich with EGF-like domain protein 1; CIRRIIN
<b>Species:</b>	Mouse
<b>Source:</b>	HEK293
<b>Accession:</b>	Q91XD7 (Q30-E362)
<b>Gene ID:</b>	171508
<b>Molecular Weight:</b>	Approximately 40-50 kDa due to the glycosylation

### PROPERTIES

<b>AA Sequence</b>	<pre> Q P S P P P H P S P   R A E P H P C H T C   R A L V D N F N K G   L E R T I R D N F G G G N T A W E E E K   L S K Y K D S E T R   L V E V L E G V C S   R S D F E C H R L L E L S E E L V E N W   W F H R Q Q E A P D   L F Q W L C S D S L   K L C C P S G T F G P S C L P C P G G T   E R P C G G Y G Q C   E G E G T R G G S G   H C D C Q A G Y G G E A C G Q C G L G Y   F E A E R N S S H L   V C S A C F G P C A   R C T G P E E S H C L Q C K K G W A L H   H L K C V D I D E C   G T E Q A T C G A D   Q F C V N T E G S Y E C R D C A K A C L   G C M G A G P G R C   K K C S R G Y Q Q V   G S K C L D V D E C E T V V C P G E N E   K C E N T E G G Y R   C V C A E G Y R Q E   D G I C V K E Q V P E S A G F F A E M T   E D E </pre>
<b>Biological Activity</b>	Measured by its ability to induce adhesion of ATDC5 mouse chondrogenic cells. The ED <sub>50</sub> for this effect is 0.5602 µg/mL, corresponding to a specific activity is 1785.077 units/mg.
<b>Appearance</b>	Lyophilized powder.
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution of PBS, 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

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**Background**

CRELD1 Protein, identified as a member of the protein disulfide isomerase family, plays a significant role in cellular processes. This protein, akin to other members of the family, is involved in disulfide bond rearrangement. Notably, CRELD1 has been found to facilitate the localization of acetylcholine receptors (AChRs) to the plasma membrane. This function underscores the importance of CRELD1 in the organization and positioning of key cellular components, particularly the acetylcholine receptors, highlighting its potential impact on cellular communication and signaling processes.

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

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