

CRELD1 Protein, Human (HEK293, His)

Cat. No.:	HY-P76285
Synonyms:	Protein disulfide isomerase CRELD1; Cysteine-rich with EGF-like domain protein 1; CIRRIIN
Species:	Human
Source:	HEK293
Accession:	Q96HD1 (Q30-E362)
Gene ID:	78987
Molecular Weight:	Approximately 45-50 kDa due to the glycosylation.

PROPERTIES

AA Sequence	<p> Q P S P P P Q S S P P P Q P H P C H T C R G L V D S F N K G L E R T I R D N F G G G N T A W E E E N L S K Y K D S E T R L V E V L E G V C S K S D F E C H R L L E L S E E L V E S W W F H K Q Q E A P D L F Q W L C S D S L K L C C P A 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 A S H L V C S A C F G P C A R C S G P E E S N C L Q C K K G W A L H H L K C V D I D E C G T E G A N 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 P G Y Q Q V G S K C L D V D E C E T E V C P G E N K Q C E N T E G G Y R C I C A E G Y K Q M E G I C V K E Q I P E S A G F F S E M T E D E </p>
Biological Activity	Measured by its ability to induce adhesion of ATDC5 mouse chondrogenic cells. The ED ₅₀ for this effect is 0.5052 µg/mL, corresponding to a specific activity is 1979.022 units/mg.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	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.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background

CRELD1 protein, functioning as a protein disulfide isomerase, plays a role in cellular processes related to the correct folding and assembly of proteins. In addition, it contributes to the proper localization of acetylcholine receptors (AChRs) to the plasma membrane. The involvement of CRELD1 in these molecular mechanisms underscores its significance in cellular homeostasis, particularly in the context of protein structure and membrane receptor distribution.

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

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