

## Collectin-11/CL-K1 Protein, Human (HEK293, His)

Cat. No.:	HY-P70100
Synonyms:	rHuCollectin-11/CL-K1, His; Collectin-11; Collectin Kidney Protein 1; CL-K1; COLEC11
Species:	Human
Source:	HEK293
Accession:	Q9BWP8 (Q26-M271)
Gene ID:	78989
Molecular Weight:	30-35 kDa

### PROPERTIES

AA Sequence	<p>           Q P A G D D A C S V    Q I L V P G L K G D    A G E K G D K G A P    G R P G R V G P T G            E K G D M G D K G Q    K G S V G R H G K I    G P I G S K G E K G    D S G D I G P P G P            N G E P G L P C E C    S Q L R K A I G E M    D N Q V S Q L T S E    L K F I K N A V A G            V R E T E S K I Y L    L V K E E K R Y A D    A Q L S C Q G R G G    T L S M P K D E A A            N G L M A A Y L A Q    A G L A R V F I G I    N D L E K E G A F V    Y S D H S P M R T F            N K W R S G E P N N    A Y D E E D C V E M    V A S G G W N D V A    C H T T M Y F M C E            F D K E N M         </p>
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of 20 mM PB, 150 mM NaCl, 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 <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).
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	<p>The Collectin-11/CL-K1 protein serves as a lectin crucial in innate immunity, apoptosis, and embryogenesis. This calcium-dependent lectin recognizes self and non-self glycoproteins presenting high mannose oligosaccharides with at least one terminal alpha-1,2-linked mannose epitope, primarily focusing on the terminal disaccharide of the glycan. Additionally, it identifies a subset of fucosylated glycans and lipopolysaccharides. In innate immunity, Collectin-11/CL-K1 binds non-self sugars on microorganisms, activating the complement through the recruitment of MAPS1. In apoptosis, the protein binds</p>
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DNA on the surface of apoptotic cells in a calcium-independent manner, triggering complement activation in response to this binding. Furthermore, Collectin-11/CL-K1 contributes to development, potentially serving as a guidance cue during the migration of neural crest cells and other cell types in embryogenesis. The protein forms homotrimers through disulfide linkages and interacts with MASP1, likely initiating the lectin pathway of complement activation.

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

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