

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

Cat. No.:	HY-P70067
Synonyms:	rMuCollectin-11, His ; Collectin-11; Collectin Kidney Protein 1; CL-K1; Colec11
Species:	Mouse
Source:	HEK293
Accession:	Q3SXB8-1 (Q27-L272)
Gene ID:	71693
Molecular Weight:	30-35 kDa

### PROPERTIES

AA Sequence	<p>           Q Q T T E 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 T V G R H G K I    G P I G A K G E K G    D S G D I G P P G P            S G E P G I P C E C    S Q L R K A I G E M    D N Q V T Q L T T E    L K F I K N A V A G            L 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 A R G G    T L S M P K D E A A            N G L M A S 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 R S P M Q 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 I T M Y F M C E            F D K E N L         </p>
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 <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>Collectin-11 is a secreted protein that plays an important role in innate immunity by binding to carbohydrate antigens on microorganisms and activating complement by recruiting mannose-binding lectins (MBL) associated serine proteases (MASPs). Collectin-11 can activate tyrosine kinase receptors (EGFR, HER3) and ERK, JNK and AKT signaling pathways, which can directly stimulate the proliferation of mouse melanoma cells. Collectin-11 plays a role in apoptosis by binding to DNA on the surface of apoptotic cells in a calcium-independent manner and activating complement in response to this binding.</p>
------------	--

---

Collectin-11 plays a protective role in urinary tract infections (UTI) induced by uropathogenic Escherichia coli (UPEC) by inducing innate immune defense<sup>[1][2][3][4][5]</sup>.

---

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA