

## Calmegin/CLGN Protein, Human (HEK293, His)

<b>Cat. No.:</b>	HY-P7709
<b>Synonyms:</b>	rHuCalmegin, His; Calmegin; CLGN
<b>Species:</b>	Human
<b>Source:</b>	HEK293
<b>Accession:</b>	O14967 (E20-W471)
<b>Gene ID:</b>	1047
<b>Molecular Weight:</b>	Approximately 60-63 kDa

### PROPERTIES

#### AA Sequence

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E F M D D D V E T E   D F E E N S E E I D   V N E S E L S S E I   K Y K T P Q P I G E
V Y F A E T F D S G   R L A G W V L S K A   K K D D M D E E I S   I Y D G R W E I E E
L K E N Q V P G D R   G L V L K S R A K H   H A I S A V L A K P   F I F A D K P L I V
Q Y E V N F Q D G I   D C G G A Y I K L L   A D T D D L I L E N   F Y D K T S Y I I M
F G P D K C G E D Y   K L H F I F R H K H   P K T G V F E E K H   A K P P D V D L K K
F F T D R K T H L Y   T L V M N P D D T F   E V L V D Q T V V N   K G S L L E D V V P
P I K P P K E I E D   P N D K K P E E W D   E R A K I P D P S A   V K P E D W D E S E
P A Q I E D S S V V   K P A G W L D D E P   K F I P D P N A E K   P D D W N E D T D G
E W E A P Q I L N P   A C R I G C G E W K   P P M I D N P K Y K   G V W R P P L V D N
P N Y Q G I W S P R   K I P N P D Y F E D   D H P F L L T S F S   A L G L E L W S M T
S D I Y F D N F I I   C S E K E V A D H W   A A D G W R W K I M   I A N A N K P G V L
K Q L M A A A E G H   P W H H H H H H
  
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#### Appearance

Lyophilized powder.

#### Formulation

Lyophilized after extensive dialysis against 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 or PBS.

#### Storage & Stability

Stored at -20°C. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer. 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

Calmegin is a testis-specific molecular chaperon playing a key role in spermatogenesis. calmegin expression is regulated by

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HDAC and CpG methyltransferase in a coordinative way<sup>[1]</sup>.

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## REFERENCES

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[1]. Dong Hoon Kim, et al. Coordinated transcriptional regulation of calmeglin, a testis-specific molecular chaperon, by histone deacetylase and CpG methyltransferase. *Exp Mol Med*. 2005 Oct 31;37(5):492-6.

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

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