Calreticulin-3/CALR3 Protein, Human

Cat. No.:	HY-P7712
Synonyms:	rHuCalreticulin-3; Calreticulin-3; calreticulin-2; calsperin; CALR3; CRT2
Species:	Human
Source:	E. coli
Accession:	Q96L12 (T20-L384)
Gene ID:	125972
Molecular Weight:	Approximately 42.0 kDa

PROPERTIES

AA Sequence	T V Y F Q E E F L D G E H W R N R W L Q S T N D S R F G H F R L S S G K F Y G H K E K D K G L Q T T Q N G R F Y A I S A R F K P F S N K G K T L V I Q Y T V K H E Q K M D C G G G Y I K V F P A D I D Q K N L N G K S Q Y Y I M F G P D I C G F D I K K V H V I L H F K N K Y H E N K K L I R C K V D G F T H L Y T L I L R P D L S Y D V K I D G Q S I E S G S I E Y D W N L T S L K K E T S P A E S K D W E Q T K D N K A Q D W E K H F L D A S T S K Q S D W N G D L D G D W P A P M L Q K P P Y Q D G L K P E G I H K D V W L H R K M K N T D Y L T Q Y D L S E F E N I G A I G L E L W Q V R S G T I F D N F L I T D D E E Y A D N F G K A T W G E T K G P E R E M D A I Q A K E E M K K A R E E E E E E L L S G K I N R H E H Y F N Q F H R R N E L
Appearance	Lyophilized powder.
Formulation	Lyophilized after extensive dialysis against 20 mM PB, 150mM NaCl, pH7.4.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O. 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	The C-terminal domain of CRT3, which is rich in basic residues, is essential for retaining bri1-9 in the ER. CRT1 and CRT2, similar to the mammalian CRT1, have an acidic C-terminal domain and are co-expressed with known ER chaperones and

folding catalysts, whereas CRT3 has a C-terminal domain enriched with basic residues such as histidine (His or H), arginine (Arg or R) and lysine (Lys or K) and is co-expressed with genes involved in plant stress responses[1].

REFERENCES

[1]. Yidan Liu, et al. A conserved basic residue cluster is essential for the protein quality control function of the Arabidopsis calreticulin 3. Plant Signal Behav. 2013 Apr;8(4):e23864.

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

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