Proteins

Product Data Sheet



Calumenin Protein, Human (HEK293, His)

Cat. No.: HY-P7713

rHuCalumenin, His; Calumenin; Crocalbin; IEF SSP 9302; CALU Synonyms:

Species: HEK293 Source:

Accession: O43852 (K20-F315)

Gene ID: 813

Molecular Weight: 43-55 kDa

PROPERTIES

AA Sequence	
73.004.000	KPTEKKDRVH HEPQLSDKVH NDAQSFDYDH DAFLGAEEAK
	TFDQLTPEES KERLGKIVSK IDGDKDGFVT VDELKDWIKF
	AQKRWIYEDV ERQWKGHDLN EDGLVSWEEY KNATYGYVLD
	DPDPDDGFNY KQMMVRDERR FKMADKDGDL IATKEEFTAF
	LHPEEYDYMK DIVVQETMED IDKNADGFID LEEYIGDMYS
	HDGNTDEPEW VKTEREQFVE FRDKNRDGKM DKEETKDWIL
	PSDYDHAEAE ARHLVYESDQ NKDGKLTKEE IVDKYDLFVG
	SQATDFGEAL VRHDEFHHHH HH
Biological Activity	Data is not available.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm filtered solution of 20 mM PB,150 mM NaCl, pH 7.0.
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 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

DESCRIPTION

Background

Shipping

Calumenin, belonging to the CREC protein family, is a multiple EF-hand Ca²⁺-binding protein, and has been found to have unique C-terminal SR retention signal HDEF. CP can combine with ryanodine receptor to active sarcoplasmic reticulum Ca²⁺

recommended to freeze aliquots at -20°C or -80°C for extended storage.

Room temperature in continental US; may vary elsewhere.

ATPase (SERCA2a) to regulate the release of intracellular calcium, intake, and storage of calcium in order to maintain homeostasis of calcium cycling. CP can also relieve ERS of myocardial cells and suppress ERS-mediated apoptosis. CP can relieve ERS-initiated apoptosis in viral myocarditis^[1].

REFERENCES

[1]. Yu Wang, et al. Calumenin relieves cardiac injury by inhibiting ERS-initiated apoptosis during viral myocarditis. Int J Clin Exp Pathol. 2017 Jul 1;10(7):7277-7284.

[2]. Pengli Zheng, et al. Calumenin and fibulin-1 on tumor metastasis: Implications for pharmacology. Pharmacol Res. 2015 Sep;99:11-5.

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

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