

CASQ2

Native Dog Calquestrin 2

Catalog No.	CRC121A	Quantity:	2 µg
	CRC121B		5 µg
	CRC121C		10 µg

Alternate Names: Calsequestrin-2, Calsequestrin cardiac muscle isoform, CASQ2, CSQ

Description: Calsequestrin is the major calcium storage protein of the sarcoplasmic reticulum. Intraluminal Ca^{2+} binds to calsequestrin during diastole to prevent Ca^{2+} precipitation and to lower its free ionic concentration to facilitate efficient storage. During systole, Calsequestrin coordinately releases ~40-50 Ca^{2+} ions per molecule for each contraction-relaxation cycle by an uncertain mechanism. Calsequestrin has been shown to be of major importance in the regulation of cardiac excitation-contraction coupling.

Source: Dog Heart

Formulation: Lyophilized from a solutions containing 10mM Tris-HCl + 1mM EGTA

Purity: > 90% as determined SDS-PAGE

Endotoxin Level: Less than 0.1 ng/µg of Calsequestrin

Reconstitution: Reconstitute in sterile distilled water to a concentration of not less than 100 µg/ml. After the initial reconstitution in water, further dilutions may be made with other aqueous buffers.

Applications: Immunoblots
Absorption
Immunohistochemistry
The optimal concentration should be determined by the user for each specific application.

Storage & Stability: Lyophilized Calsequestrin, although stable at room temperature for 3 weeks, should be stored at -20°C. After reconstitution Calsequestrin should be stored at 2-4°C for one week and for future use below -20°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). **Please prevent freeze-thaw cycles. Please note that the addition of any carrier protein into this product may produce unwanted endotoxin. This depends upon the particular application employed.**

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