

Native Canine CASQ2

Cat. No. CASQ2-30C Lot. No. (See product label)

SPECIFICATION

Product Overview 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.

Species Canine

Source Dog Heart

Form The protein was lyophilized from a concentrated solution (1mg/ml) containing 10mM Tris-HCl and 1mM EGTA.

Purity Greater than 90% as determined by SDS-PAGE.

Usage This product is furnished for LABORATORY RESEARCH USE ONLY. Not for diagnostic or therapeutic use.

Storage Lyophilized CASQ2 although stable at room temperature for 3 weeks, should be stored desiccated below $-18^{\circ}C$. Upon reconstitution CASQ2 should be stored at $4^{\circ}C$ between 2-7 days and for future use below $-18^{\circ}C$. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

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Reconstitution It is recommended to reconstitute the lyophilized CASQ2 in sterile 18MΩ-cm H₂O not less than 100μg/ml, which can then be further diluted to other aqueous solutions.

GENE INFORMATION

Gene Name CASQ2?calsequestrin 2 (cardiac muscle) [?Canis lupus familiaris?(dog)]

Official Symbol CASQ2

Synonyms CAL; CASQ2

Gene ID 483134

mRNA Refseq XM_540252

Protein Refseq XP_540252

Chromosome Location chromosome: 17

Function calcium ion binding; protein binding

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