Dog CASQ2 Recombinant Protein



RPPB3484

Accession:

P12637

Host:

Product Information Protein Information

Product SKU: Protein description:

RPPB3484 Calsequestrin is the major calcium storage protein of the sarcoplasmic reticulum. Intraluminar Ca2+ binds

> to calsequestrin during diastole to prevent Ca2+ precipitation and to lower its free ionic concentration to facilitate efficient storage. During systole, Calsequestrin coordinately releases ~40--50 Ca2+ 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.

Dog Heart. **Appearance:**

Sterile Filtered White lyophilized (freeze-dried) powder.

Synonyms:

Calsequestrin-2, Calsequestrin cardiac muscle isoform, CASQ2, CSQ.

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

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

Solubility:

EGTA.

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

Stability:

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