

Calsequestrin-2 Dog

Item Number	rAP-2629
Synonyms	Calsequestrin-2, Calsequestrin cardiac muscle isoform, CASQ2, CSQ.
Description	Calsequestrin is the major calcium storage protein of the sarcoplasmic reticulum. Intraluminar 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
Uniprot Accession Number	P12637
Amino Acid Sequence	
Source	Dog Heart.
Physical Appearance and Stability	Sterile Filtered White lyophilized (freeze-dried) powder. 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).
Formulation and Purity	The protein was lyophilized from a concentrated solution (1mg/ml) containing 10mM Tris-HCl and 1mM EGTA. Greater than 90% as determined by SDS-PAGE.
Application	
Solubility	It is recommended to reconstitute the lyophilized CASQ2 in sterile 18M-cm H ₂ O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.
Biological Activity	
Shipping Format and Condition	Lyophilized powder at room temperature.

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for **Research Use Only**