

CASQ2 Dog

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.

Catalog #: PRPS-417

For research use only.

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

Source: Dog Heart.

Physical Appearance: Sterile Filtered White lyophilized (freeze-dried) powder.

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

Formulation:

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

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.

Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

Applications:

Immunoblots Absorption Immunohistochemistry.

Solubility:

It is recommended to reconstitute the lyophilized CASQ2 in sterile 18M-cm H_2O not less than 100

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