



Product Datasheet

Product Name	Calsequestrin
Cata No	CB501031
Source	<i>Dog Heart</i>
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 ~4050 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.

Physical Appearance

Sterile Filtered White lyophilized (freeze-dried) powder.

Formulation

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

1mM EGTA.

Stability

Lyophilized Calsequestrin although stable at room temperature for 3 weeks, should be stored desiccated below -18°C . Upon reconstitution Calsequestrin 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.

Applications

Immunoblots
Absorption
Immunohistochemistry