BioVendor Laboratory Medicine, Inc.

Cardiac Actin (c-Actin)

Product Data Sheet

Cat. No.:	RP1725190002	RP1725190010	RP17251901000
	2µg	10µg	1mg

Introduction:
Alpha-cardiac actin belongs to the actin family which is comprised of three main groups of actin isoforms, alpha, beta, and gamma. The alpha actins are found in muscle tissues and are a major constituent of the contractile apparatus. Defects in the cardiac actin have been associated with idiopathic dilated cardiomyopathy (IDC) and familial hypertrophic cardiomyopathy (FHC).

Description:
Ultra pure Cardiac Actin having a Molecular mass of 43,000 dalton.

Source:
Bovine Heart

Applications:
Protein standard in 1D and 2D SDS gel electrophoresis
Immunoassays
Immunization

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

Formulation:
The protein was lyophilized from a 1mg/ml solution containing 10mM Tris-acetate buffer pH 8.0, 0.2mM $CaCl_2$, 0.2mM ATP, 1mM DTT and 0.5% SDS.

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

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

Purity:
Greater than 98.0% as determined by:
(a) Analysis by RP-HPLC.
(b) Analysis by SDS-PAGE.

Usage:
BioVendor's products are furnished for LABORATORY RESEARCH USE ONLY. They may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

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