

## ACTC1 Native Bovine Cardiac Actin

<b>Catalog No.</b>	CRA140A CRA140B CRA140C	<b>Quantity:</b>	2 µg 10 µg 1.0 mg
<b>Alternate Names:</b>	Actin alpha cardiac muscle 1, Alpha-cardiac actin, ACTC1, ACTC.		
<b>Description:</b>	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).		
<b>Gene ID:</b>	533219		
<b>Source:</b>	Bovine Heart.		
<b>Molecular Weight:</b>	Ultra pure Cardiac Actin having a Molecular mass of 43,000 dalton.		
<b>Formulation:</b>	The protein was lyophilized from a 1 mg/ml solution containing 10 mM Tris-acetate buffer pH 8.0 + 0.2 mM CaCl <sub>2</sub> + 0.2 mM ATP + 1 mM DTT and 0.5% SDS.		
<b>Purity:</b>	Greater than 98.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.		
<b>Physical Appearance:</b>	Sterile Filtered White lyophilized (freeze-dried) powder.		
<b>Reconstitution:</b>	It is recommended to reconstitute the lyophilized Cardiac Actin in sterile 18 MΩ-cm water not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.		
<b>Applications:</b>	Protein standard in 1D and 2D SDS gelelectrophoresis Immunoassays Immunization.		
<b>Storage &amp; Stability:</b>	Lyophilized Cardiac-Actin although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution Cardiac Actin 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). <b>Please prevent freeze-thaw cycles.</b>		

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