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**Product Data Sheet**

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Product Name: c-Actin  
Cat. No.: GP22974  
Batch No.: 1

**Product Data**

Purity	>98%	Source	Bovine Heart.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	Actin alpha cardiac muscle 1; Alpha-cardiac actin; ACTC1; ACTC.		
Solubility	It is recommended to reconstitute the lyophilized Cardiac Actin in sterile 18MΩ-cm H <sub>2</sub> O not less than 100μg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	The protein was lyophilized from a 1mg/ml solution containing 10mM Tris-acetate buffer pH 8.0, 0.2mM CaCl <sub>2</sub> , 0.2mM ATP, 1mM DTT and 0.5% SDS.		

**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).

**Stability**

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).Please prevent freeze-thaw cycles.

**Background**

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

**Caution: Product has not been fully validated for medical applications. For research use only.**

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