

Cardiac Actin

Item Number	rAP-2725
Synonyms	Actin alpha cardiac muscle 1, Alpha-cardiac actin, ACTC1, ACTC.
Description	Ultra pure Cardiac Actin having a Molecular mass of 43,000 dalton.
Uniprot Accesion Number	Q3ZC07
Amino Acid Sequence	
Source	Bovine Heart.
Physical Appearance and Stability	Sterile Filtered White lyophilized (freeze-dried) powder. 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.
Formulation and Purity	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. Greater than 98.0% as determined by:(a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE.
Application	Protein standard in 1D and 2D SDS gelelectrophoresisImmunoassays Immunization.
Solubility	It is recommended to reconstitute the lyophilized Cardiac Actin in sterile 18MΩ-cm H ₂ O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.
Biological Activity	
Shipping Format and Condition	Lyophilized powder at room temperature.

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for **Research Use Only**