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Cardiac Actin

CLPRO519
CLPRO519-2
Lot:

Description: Ultra pure Cardiac Actin having a molecular mass of 43,000 daltons.

Presentation: 2 µg (CLPRO519) or 10 µg (CLPRO519-2) sterile filtered lyophilized powder. The protein was lyophilized from a 1mg/ml solution contains 10mM TRIS/acetate buffer pH 8.0, 0.2 mM CaCl₂, 0.2 mM ATP, 1mM DTT and 0.5% SDS.

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). Avoid freeze-thaw cycles.

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.

Applications:

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

Purity:

Greater than 98.0% as determined by RP-HPLC and SDS-PAGE analysis.

References:

1. Transgenic overexpression of cardiac actin in the mouse heart suggests coregulation of cardiac, skeletal and vascular actin expression. Transgenic Res 2004 Dec; 13(6):5 31-40
2. A novel complex regulates cardiac actin gene expression through interaction of Emb, a class VI POU domain protein, MEF2D, and the histone transacetylase p300. Mol Cell Biol 2004 Apr; 24 (7):2944-57
3. Clinical and genetic characteristics of alpha cardiac actin gene mutations in hypertrophic cardiomyopathy. J Med Genet 2004 Jan; 41(1):e10
4. No variants in the cardiac actin gene in Finnish patients with dilated or hypertrophic cardiomyopathy. Am Heart J 2002 Jun; 143(6):E6
5. Evaluation of the cardiac actin gene in Doberman Pinschers with dilated cardiomyopathy. Am J Vet Res 2001 Jan; 62 (1):33-6
6. Epidemiology of desmin and cardiac actin gene mutations in a european population of dilated cardiomyopathy. Eur Heart J 2000 Nov;21 (22):1872-6

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JJ 11/22/06

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