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# 32-3176: Alpha Actinin Native Protein

**Alternative Name :** Alpha-actinin-1,Alpha-actinin cytoskeletal isoform,Non-muscle alpha-actinin-1,F-actin cross-linking protein,ACTN1.

## Description

Source : Chicken Gizzard. Ultra pure Alpha Actinin having a Molecular mass of 95,000 Dalton. ACTN1 encodes a nonmuscle, cytoskeletal, alpha actinin isoform and maps to the same site as the structurally similar erythroid beta spectrin gene. Alpha actinins belong to the spectrin gene superfamily which represents a diverse group of cytoskeletal proteins, including the alpha and beta spectrins and dystrophins. Alpha actinin is an actin-binding protein with multiple roles in different cell types. In nonmuscle cells, the cytoskeletal isoform is found along microfilament bundles and adherens-type junctions, where it is involved in binding actin to the membrane. In contrast, skeletal, cardiac, and smooth muscle isoforms are localized to the Z-disc and analogous dense bodies, where they help anchor the myofibrillar actin filaments.

## Product Info

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| **Amount :** | 50 µg |
| **Purification :** | Greater than 95.0% as determined by:(a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE. |
| **Content :** | The protein was lyophilized from a 1mg/ml solution containing 10mM Tris acetate buffer pH 7.6, 0.1mM EDTA, 2mM DTT, and 20mM NaCl. |
| **Storage condition :** | Lyophilized a-Actinin although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution a-Actinin 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. |

## Application Note

It is recommended to reconstitute the lyophilized a-Actinin in sterile 18MÃ□Â©-cm H2O not less than 100Ã□Âµg/ml, which can then be further diluted to other aqueous solutions.