
Product Data Sheet

Product Name: α -Actinin
Cat. No.: GP22703
Batch No.: 1

Product Data

Purity	>98%	Source	Chicken Gizzard.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	Alpha-actinin-1; Alpha-actinin cytoskeletal isoform; Non-muscle alpha-actinin-1; F-actin cross-linking protein; ACTN1.		
Solubility	It is recommended to reconstitute the lyophilized α -Actinin in sterile 18M Ω -cm H ₂ O not less than 100 μ g/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 7.6, 0.1mM EDTA, 2mM DTT, and 20mM NaCl.		

Introduction

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.

Stability

Lyophilized α -Actinin although stable at room temperature for 3 weeks, should be stored desiccated below -18°C . Upon reconstitution α -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.

Background

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

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Address: 10292 Central Ave. #205, Montclair, CA, USA

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Ultra pure Alpha Actinin having a Molecular mass of 95,000 Dalton.

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