

A2M Human

Macroglobulin Alpha-2 Human
NTP0001

Product Overview

Name A2M Human

Description

Macroglobulin Alpha-2 Human

Accession (Primary) [P01023](#)

Synonyms

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

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.

Source

Chicken Gizzard.

Physical Appearance

Sterile Filtered White lyophilized (freeze-dried) powder.

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.

Stability

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.

Purity

Greater than 95.0% as determined by analysis by SDS-PAGE.

Solubility

It is recommended to reconstitute the lyophilized α -Actinin in sterile 18M ϕ -cm H₂O not less than 100 μ g/ml, which can then be further diluted to other aqueous solutions.

Applications

Protein standard in 1D and 2D SDS gelelectrophoresis Immunoassays Immunization.

Precautions

A2M Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: ([P01023](#))