9051 Mira Mesa Blvd, #910094
San Diego, CA 92191
Tel: 760-390-3989

Filamin

Filamin
NTP0031

Product Overview

Name	Filamin

Description

Filamin

Introduction

Filamin is a large (270kd) dimeric actin crosslinking protein from a variety of sources, which helps to stabilize the 3D cortical actin network. The fundamental structure of filamin is well conserved and consists of an actin binding domain at the N-terminus followed by a C-terminal rod domain consisting of numerous repeat segments ranging from 4 in C. elegans to 24 in mammalian cells. Each repeat in the rod domain consists of roughly 100 residues and forms an immunoglobulin like fold. Such immunoglobulin folds have been found in a variety of proteins and are responsible for protein-protein interactions. Filamin Human actin-binding protein (ABP), aka filamin, crosslinks actin filaments into orthogonal networks in cortical cytoplasm and participates in the anchoring of membrane proteins for the actin cytoskeleton. Mammalian filamin interacts directly with at least 30 proteins such as transmembrane receptors, second messenger-associated proteins, protein kinases, phosphatases and cytoskeletal proteins and these interactions have been shown to require one or more of the repeat elements in the rod domain.

Source

Chicken Gizzard.

Physical Appearance

Sterile Filtered White lyophilized (freeze-dried) powder.

Formulation

The protein was lyophilized from a 1mg/ml solution containing 20mM Tris / acetate buffer pH 7.6, 0.1mM EDTA, 2mM DTT, 9M urea and 20mM NaCl.

Stability

Lyophilized Filamin although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution Filamin 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 90.0% as determined by SDS-PAGE.

Solubility

It is recommended to reconstitute the lyophilized Filamin protein at a concentration of 0.5mg/ml in water.

Precautions

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