

Native Chicken Filamin C, Gamma

Cat. No. FLNC-4360C **Lot. No.** (See product label)

SPECIFICATION

Product Overview Ultra Pure Filamin having a Molecular mass of 250 kDa.

Species Chicken

Source Chicken Gizzard

Description

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.

Form

Sterile Filtered White lyophilized (freeze-dried) powder. The protein was lyophilized from a 1mg/ml solution containing 20mM Tris / acetate buffer pH 7.6, 0.1mM EDTA, 2mM DTT and 20mM NaCl. Each mg Filamin contains 550mg urea.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Purity	Greater than 90.0% as determined by SDS-PAGE.
Storage	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.
Reconstitution	It is recommended to reconstitute the lyophilized Filamin in sterile 18M Omega-cm H ₂ O not less than 100 ug/ml, which can then be further diluted to other aqueous solutions.

GENE INFORMATION

Gene Name	FLNC filamin C, gamma [<i>Gallus gallus</i>]
Official Symbol	FLNC
Synonyms	filamin-C; 260kDa actin-binding protein; cgABP260 actin-binding domain
Gene ID	395260
mRNA Refseq	NM_204573
Protein Refseq	NP_989904
Chromosome Location	chromosome: Un
Pathway	Focal adhesion, organism-specific biosystem; Focal adhesion, conserved biosystem; MAPK signaling pathway, conserved biosystem

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