

phospho-Cofilin 1 (Ser-3) Peptide

Cat. No. Ser3-20 Lot. No. (See product label)

SPECIFICATION

Product Overview	Phospho-Cofilin 1 (Ser-3) synthetic peptide corresponds to amino acid residues around serine 3 of human Cofilin 1. This peptide sequence has 100% homology with similar regions of rat and mouse Cofilin 1, and has two amino acid differences from human Cofilin
Description	Members of the ADF/cofilin (AC) family are actin-severing proteins that regulate actin remodeling during cellular events such as cell migration, cytokinesis, phagocytosis, endocytosis, axon development, and immune cell activation. In mammals, there are three members of the AC family, muscle-specific cofilin (Cofilin 2), non-muscle cofilin (Cofilin 1), and ADF. In humans, cofilin 1 and ADF have 72% identity, with the major amino acid differences found in the C-terminal region. Regulation of cofilin activity can occur through serine phosphorylation. Activation of cofilin kinases, LIMK1 or LIMK2, leads to phosphorylation of cofilin at serine 3. This phosphorylation disrupts cofilin binding to actin in vitro and in vivo. Multiple phosphatases, PP1, PP2A, PP2B, slingshot, and chronophin can dephosphorylate Ser-3 and activate actin binding. Thus, Ser-3 phosphorylation is a major site for the regulation of cofilin activity.
Form	Supplied in 50μl phosphate-buffered saline and 0.05% sodium azide.
Storage	Store at –20°C. Stable for 1 year.

 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