

Product datasheet

Cofilin 2 peptide (142-152) ab45798

Overview

Product name Cofilin 2 peptide (142-152)

Description

Nature Synthetic

Amino Acid Sequence

Species Human

Sequence C-DIKDRSTLGEK

Amino acids 142 to 152

Specifications

Our [Abpromise guarantee](#) covers the use of **ab45798** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications Blocking - Blocking peptide for Anti-Cofilin 2 antibody ([ab39985](#))

Form Liquid

Preparation and Storage

Stability and Storage Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.

General Info

Function Controls reversibly actin polymerization and depolymerization in a pH-sensitive manner. It has the ability to bind G- and F-actin in a 1:1 ratio of cofilin to actin. It is the major component of intranuclear and cytoplasmic actin rods.

Tissue specificity Isoform CFL2b is expressed predominantly in skeletal muscle and heart. Isoform CFL2a is expressed in various tissues.

Involvement in disease Defects in CFL2 are the cause of nemaline myopathy type 7 (NEM7) [MIM:610687]. A form of nemaline myopathy. Nemaline myopathies are muscular disorders characterized by muscle weakness of varying severity and onset, and abnormal thread-or rod-like structures in muscle fibers on histologic examination. Nemaline myopathy type 7 presents at birth with hypotonia and generalized weakness. Major motor milestones are delayed, but independent ambulation is

	achieved.
Sequence similarities	Belongs to the actin-binding proteins ADF family. Contains 1 ADF-H domain.
Post-translational modifications	The phosphorylation of Ser-24 may prevent recognition of the nuclear localization signal.
Cellular localization	Nucleus matrix. Cytoplasm > cytoskeleton.

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