



Recombinant Protein Technical Manual  
Recombinant Human CFL2/cofilin 2/ADF Protein (His  
Tag)  
RPES1497

Product Data:

**Product SKU:** RPES1497

**Size:** 20µg

**Species:** Human

**Expression host:** E. coli

**Uniprot:** Q9Y281

Protein Information:

**Molecular Mass:** 20.4 kDa

**AP Molecular Mass:** 21 kDa

**Tag:** N-His

**Bio-activity:**

**Purity:** > 98 % as determined by reducing SDS-PAGE.

**Endotoxin:** Please contact us for more information.

**Storage:** Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

**Shipping:** This product is provided as lyophilized powder which is shipped with ice packs.

**Formulation:** Lyophilized from sterile PBS, pH 7.5

**Reconstitution:** Please refer to the printed manual for detailed information.

**Application:**

**Synonyms:** NEM7

## Immunogen Information:

**Sequence:** Ala 2-Leu 166

## Background:

Cofilin 2 (muscle), also known as CFL2, is a member of cofilin family of the actin-binding protein superfamily. Cofilin2 shows significant homology to the other two members: cofilin 1 and DSTN, through its entire sequence, and contains residues conserved among the cofilin family that are responsible for actin-binding. Cofilin 2 (CFL2) is an important regulator of striated myocyte function. Purified cofilin 2 depolymerized actin filaments in a dose- and pH-dependent manner and reduced the apparent viscosity of an actin solution, although they did not co-sediment with actin filaments at all. Cofilin2 is not expressed in vegetative cells, but is transiently induced during the aggregation stage of development, whereas cofilin 1 was predominantly expressed in vegetative cells.