

Cofilin-2 Protein, Human (His)

Cat. No.:	HY-P74234
Synonyms:	Cofilin-2; CFL2
Species:	Human
Source:	E. coli
Accession:	Q9Y281-1 (A2-L166)
Gene ID:	1073
Molecular Weight:	Approximately 20 kDa

PROPERTIES

AA Sequence	<pre> A S G V T V N D E V I K V F N D M K V R K S S T Q E E I K K R K K A V L F C L S D D K R Q I I V E E A K Q I L V G D I G D T V E D P Y T S F V K L L P L N D C R Y A L Y D A T Y E T K E S K K E D L V F I F W A P E S A P L K S K M I Y A S S K D A I K K K F T G I K H E W Q V N G L D D I K D R S T L G E K L G G N V V V S L E G K P L </pre>
Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	<p>Cofilin-2 protein exerts reversible control over actin polymerization and depolymerization, demonstrating pH-sensitive activity. Its capacity for F-actin depolymerization is regulated through an association with CSRP3. Cofilin-2 exhibits the ability to bind both G- and F-actin in a 1:1 ratio, serving as a crucial component in the formation of intranuclear and cytoplasmic actin rods. Essential for muscle maintenance, it may play a role in the exchange of alpha-actin forms during the early postnatal remodeling of the sarcomere. Additionally, Cofilin-2 interacts with CSRP3, with the intriguing possibility that two molecules of CFL2 can engage with one molecule of CSRP3.</p>
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Caution: Product has not been fully validated for medical applications. For research use only.

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