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**Product Data Sheet**


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Product Name: CFL2 Human  
 Cat. No.: GP23134  
 Batch No.: 1

**Product Data**

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Cofilin-2; Cofilin- muscle isoform; CFL2; NEM7.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MASGVTVNDE VIKVFNDMKV RKSSTQEEIK KRKKAVLFLCL SDDKRQIIVE EAKQILVGDI GDTVEDPYTS FVKLLPLNDC RYALYDATYE TKESKKEDLV FIFWAPESAP LKSKMIYASS KDAIKKKFTG IKHEWQVNGL DDIKDRSTLG EKLGGNVVVS LEGKPL.		
Formulation	CFL2 protein solution (1mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 2mM DTT, 10% glycerol and 50mM NaCl.		

**Introduction**

CFL2 protein is a member of the actin-binding proteins ADF family which contains 1 ADF-H domain. Cofilin is a broadly distributed intracellular actin-modulating protein which binds and depolymerizes filamentous F-actin and inhibits the polymerization of monomeric G-actin in a pH-dependent manner. Defects in the CFL2 gene are the cause of nemaline myopathy type 7 (NEM7).

**Stability**

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

**Background**

CFL2 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 186 amino acids (1-166 a.a.) and having a molecular mass of 20.9kDa. CFL2 is fused to a 20 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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