

# Recombinant Full Length Human ACTC1 Protein, GST-tagged

**Cat. No.** ACTC1-818HF    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	Human ACTC full-length ORF ( AAH09978.1, 1 a.a. - 377 a.a.) recombinant protein with GST-tag at N-terminal.
<b>Species</b>	Human
<b>Source</b>	In Vitro Cell Free System
<b>ProteinLength</b>	377 amino acids
<b>Description</b>	Actins are highly conserved proteins that are involved in various types of cell motility. Polymerization of globular actin (G-actin) leads to a structural filament (F-actin) in the form of a two-stranded helix. Each actin can bind to four others. The protein encoded by this gene belongs to the actin family which is comprised of three main groups of actin isoforms, alpha, beta, and gamma. The alpha actins are found in muscle tissues and are a major constituent of the contractile apparatus. Defects in this gene have been associated with idiopathic dilated cardiomyopathy (IDC) and familial hypertrophic cardiomyopathy (FHC). [provided by RefSeq, Jul 2008]
<b>Molecular Mass</b>	68.4 kDa
<b>AA Sequence</b>	MCDDEETTAL VCDNGSGLVK AGFAGDDAPR AVFPSIVGRP RHQGVMVGMG QKDSYVGDEA QSKRGILTLK YPIEHGIITN WDDMEKIWHH TFYNELRVAP EEHPTLLTEA PLNPKANREK MTQIMFETFN VPAMYVAIQA VLSLYASGRT TGIVLDSGDG VTHNVPIYEG YALPHAIMRL DLAGRDLDY LMKILTERGY SFVTTAEREI VRDIKEKLCY VALDFENEMA TAASSSSLEK SYELPDGQVI

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TIGNERFRCP ETLFQPSFIG MESAGIHETT YNSIMKCDID IRKDLYANNV  
 LSGGTTMYPG IADRMQKEIT ALAPSTMKIK IIAPPERKYS VWIGGSILAS  
 LSTFQQMWIS KQEYDEAGPS IVHRKCF

**Applications**  
 Enzyme-linked Immunoabsorbent Assay  
 Western Blot (Recombinant protein)  
 Antibody Production  
 Protein Array

**Storage** Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

**Storage Buffer** 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

## GENE INFORMATION

**Gene Name** [ACTC1 actin, alpha, cardiac muscle 1 \[ Homo sapiens \]](#)

**Official Symbol** [ACTC1](#)

**Synonyms** ACTC1; actin, alpha, cardiac muscle 1; ACTC, actin, alpha, cardiac muscle; actin, alpha cardiac muscle 1; CMD1R; alpha-cardiac actin; ACTC; ASD5; CMH11; LVNC4;

**Gene ID** [70](#)

**mRNA Refseq** [NM\\_005159](#)

**Protein Refseq** [NP\\_005150](#)

**MIM** [102540](#)

**UniProt ID** [P68032](#)

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