

Recombinant Full Length Human ACTC1 Protein, GST-tagged

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

SPECIFICATION

Product Overview	Human ACTC full-length ORF (AAH09978.1, 1 a.a. - 377 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	377 amino acids
Description	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]
Molecular Mass	68.4 kDa
AA Sequence	MCDDEETTAL VCDNGSGLVK AGFAGDDAPR AVFPSIVGRP RHQGVMMVGMG QKDSYVGDEA QSKRGILTLK YPIEHGIITN WDDMEKIWHH TFYNELRVAP EEHPTLLTEA PLNPKANREK MTQIMFETFN VPAMYVAIQA VLSLYASGRT TGIVLDSGDG VTHNVPIYEG YALPHAIMRL DLAGRDLTDY 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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