

Recombinant Human ACTC1 Protein, GST-tagged

Cat. No. ACTC1-214H **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	Wheat Germ
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	MCDDEETTALVCDNGSGLVKAGFAGDDAPRAVFPSIVGRPRHQGVMMVGMGQKDS YVGDEAQSKRGILTLKYPIEHGIITNWDDMEKIWHHTFYNELRVAPEEHPTLLTEAPL NPKANREKMTQIMFETFNVPAMYVAIQAVLSLYASGRRTTGIVLDSGDGVTHNVPIYE GYALPHAIMRLDLAGRDLTDYLMKILTERGYSFVTTAEREIVRDIKEKLCYVALDFENE MATAASSSSLEKSYELPDGQVITIGNERFRCPETLFQPSFIGMESAGIHETTYNSIMK CDIDIRKDL YANNVL SGGTTMYPGIADRMQKEITALAPSTMKIKIIPPERKYSVWIGG

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	SILASLSTFQQMWISKQEYDEAGPSIVHRKCF
Applications	Enzyme-linked Immunoabsorbent Assay Western Blot (Recombinant protein) Antibody Production Protein Array
Notes	Best use within three months from the date of receipt of this protein.
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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