Recombinant Human ACTC1 protein, His & T7-tagged

Cat. No. ACTC1-6835H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human ACTC1 aa. (Asp156~Gly368 (Accession # P68032)) fused with N-terminal His & T7 tag was produced in E. coli cells.
Species	Human
Source	E.coli
ProteinLength	Asp156~Gly368
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).
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 27.6kDa.
Endotoxin	<1.0EU per 1ug (determined by the LAL method)
Purity	>95%

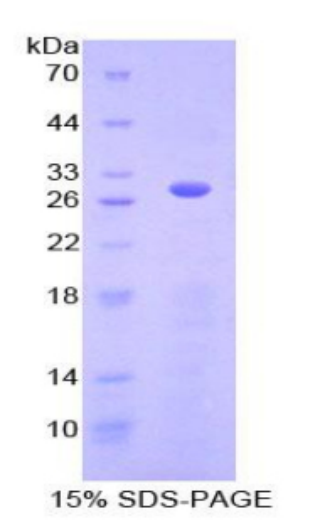
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Characteristic	The isoelectric point is 5.7.
Applications	SDS-PAGE; WB; ELISA; IP.
Stability	The thermal stability is described by the loss rate of the target protein. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. (Referring from China Biological Products Standard, which was calculated by the Arrhenius equation.) The loss of this protein is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Storage buffer	Supplied as lyophilized form in PBS, pH7.4, containing 5% sucrose, 0.01% sarcosyl.
Reconstitution	Reconstitute in sterile PBS, pH7.2-pH7.4.

GENE INFORMATION

Gene Name	ACTC1 actin, alpha, cardiac muscle 1 [Homo sapiens (human)]
Official Symbol	ACTC1
Synonyms	ACTC; ASD5; CMD1R; CMH11; LVNC4; actin, alpha cardiac muscle 1
Gene ID	70
mRNA Refseq	NM_005159.4
Protein Refseq	NP_005150.1

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UniProt ID	P68032
SDS-PAGE	

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