

Native Human Actin, Alpha, Cardiac Muscle 1

Cat. No. ACTC1-5294H Lot. No. (See product label)

SPECIFICATION

Product Overview	Native human ACTC1 was expressed in ACTC1 Human Heart.
Species	Human
Source	Human Heart
Description	The actin family is comprised of 3 main groups of actin isoforms, alpha, beta, and gamma. The ACTC1 are found in muscle tissues and are a major constituent of the contractile apparatus. The beta and gamma actins coexist in most cell types as components of the cytoskeleton. Defects in this gene have been associated with idiopathic dilated cardiomyopathy (IDC) and familial hypertrophic cardiomyopathy (FHC).
Form	Lyophilized from a solution containing 20 mM Tris + 0.2 M NaCl + 1 mM ATP.
Biological Activity	Sample tested positive for Muscle Actin activity by Western blot.
Concentration	1 mg/ml
Endotoxin Level	< 0.1 ng/g of protein.
Reconstitution	Reconstitute with neutral buffer or deionized water.
Storage	Reconstituted protein is stable for 1 week at 2-4°C. For long term storage, aliquot and freeze at -20°C. Avoid repeated freeze-thaw cycles.

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Pathways

Cardiacmuscle contraction; Dilated cardiomyopathy; Hypertrophic cardiomyopathy(HCM); Myometrial Relaxation and Contraction Pathways; Striated MuscleContraction

GENE INFORMATION
Gene Name

[ACTC1 actin, alpha, cardiac muscle1 \[Homo sapiens \]](#)

Official Symbol

[ACTC1](#)

Synonyms

ACTC1; actin, alpha, cardiacmuscle 1; ACTC; ASD5; CMD1R; CMH11; LVNC4; actin, alpha cardiac muscle 1;OTTHUMP00000160081; alpha-cardiac actin; Alpha-cardiac actin

Gene ID

[70](#)

mRNA Refseq

[NM_005159](#)

Protein Refseq

[NP_005150](#)

MIM

[102540](#)

UniProt ID

[P68032](#)

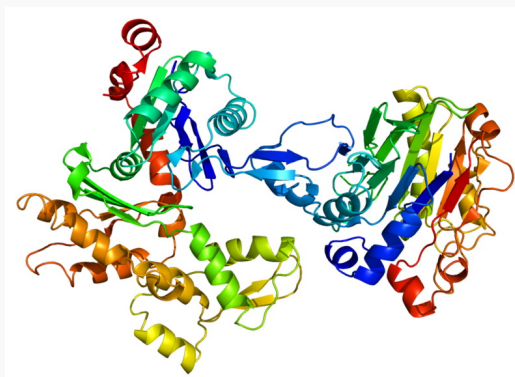
Chromosome Location

15q11-q14

Function

ATPbinding; ATPase activity; myosin binding; nucleotide binding

PDBrendering based
on 1atn.



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