

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

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