Actin, Alpha Cardiac Muscle 1 (ACTC1) Bovine Recombinant Protein

PRODUCT OVERVIEW

Product Name	Actin, alpha cardiac muscle 1 (ACTC1), Recombinant Protein
Full Product Name	Recombinant Bovine Actin, alpha cardiac muscle 1 (ACTC1)
Product Gene Name	ACTC1 recombinant protein
Product Synonym Gene Name	ACTC1
Sequence	DDEETTALVC DNGSGLVKAG FAGDDAPRAV FPSIVGRPRH QGVMVGMGQK DSYVGDEAQS KRGILTLKYP IEHGIITNWD DMEKIWHHTF YNELRVAPEE HPTLLTEAPL NPKANREKMT QIMFETFNVP AMYVAIQAVL SLYASGRTTG IVLDSGDGVT HNVPIYEGYA LPHAIMRLDL AGRDLTDYLM KILTERGYSF VTTAEREIVR DIKEKLCYVA LDFENEMATA ASSSSLEKSY ELPDGQVITI GNERFRCPET LFQPSFIGME SAGIHETTYN SIMKCDIDIR KDLYANNVLS GGTTMYPGIA DRMQKEITAL APSTMKIKII APPERKYSVW IGGSILASLS TFQQMWISKQ EYDEAGPSIV HRKCF
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.
Molecular Weight	42,019 Da
Sequence Positions	3-377, full length protein
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
3D Structure	ModBase 3D Structure for Q3ZC07
Species	Bovine
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for ACTC1 recombinant protein	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. This protein 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).
Other Notes	Small volumes of ACTC1 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for ACTC1 purchase	MBS1341790 is a recombinant protein targeting ACTC1. Also known as Recombinant Bovine Actin, alpha cardiac muscle 1 (ACTC1). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ACTC1. It may not necessarily be applicable to this product.

NCBI GI #	77736117
NCBI GeneID	533219
NCBI Accession #	NP_001029757.1
UniProt Primary Accession #	Q3ZC07
UniProt Related Accession #	Q3ZC07
GenBank Nucleotide #	NM_001034585.2
NCBI Official Full Name	actin, alpha cardiac muscle 1
NCBI Official Synonym Full Names	actin, alpha, cardiac muscle 1
NCBI Official Symbol	ACTC1
NCBI Official Synonym Symbols	ACTC
UniProt Protein Name	Actin, alpha cardiac muscle 1
UniProt Synonym Protein Names	Alpha-cardiac actin
Protein Family	Actin
UniProt Gene Name	ACTC1
UniProt Synonym Gene Names	ACTC
NCBI Protein Information	actin, alpha cardiac muscle 1
UniProt Comments for ACTC1	Actins are highly conserved proteins that are involved in various types of cell motility and are ubiquitously expressed in all eukaryotic cells.
Research Articles on ACTC1	**1.** Tm affects the conformation of actin so as to increase the area of hydrophobic interaction between actin and myosin molecules
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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