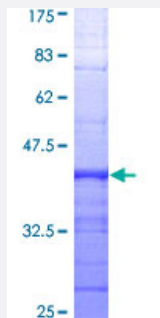


ACTC (Human) Recombinant Protein (Q01)

Catalog # H00000070-Q01

Size 25 ug, 10 ug

Applications



Specification

Product Description	Human ACTC partial ORF (AAH09978, 3 a.a. - 102 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	DDEETALVCDNGSGLVKAGFAGDDAPRAVFPSPVGRPRHQGVMMVGMGQKDSYVGDEAQSKR GILTLKYPIEHGIITNWDDMEKWHHTFYNELRVAPEE
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	36.63
Interspecies Antigen Sequence	Mouse (100); Rat (100)
Preparation Method	in vitro wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — ACTC1

Entrez GeneID [70](#)

GeneBank Accession# [BC009978](#)

Protein Accession# [AAH09978](#)

Gene Name ACTC1

Gene Alias ACTC, CMD1R, CMH11

Gene Description actin, alpha, cardiac muscle 1

Omim ID [102540](#) [192600](#)

Gene Ontology [Hyperlink](#)

Gene Summary 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]

Other Designations cardiac muscle alpha actin 1

Pathway

- [Cardiac muscle contraction](#)
- [Hypertrophic cardiomyopathy \(HCM\)](#)

Disease

- [Cardiomegaly](#)
- [Cardiomyopathies](#)
- [Cardiomyopathy](#)
- [Cardiovascular Diseases](#)
- [Diabetes Mellitus](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Myopia](#)