

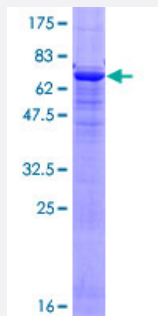
Full-Length

ACTC (Human) Recombinant Protein (P01)

Catalog # H00000070-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human ACTC full-length ORF (AAH09978.1, 1 a.a. - 377 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MCDDEETTALVCDNGSGLVKAGFAGDDAPRAVFPISVGRPRHQGVVMVGMGQKDSYVGDEAQS
KRGILTLKYPIEHGIIITNWDDMEKWHHTFYNELRVAPEEHPTLLTEAPLNPKANREKMTQIMFETFN
VPAMYVAIQAVLSLYASGRTTGIVLDSDGVTNVPYEGYALPHAIMRLDLAGRDLTDYLMKILTER
GYSFVTTAEREIVRDIKEKLCYVALDFENEMATAASSSSLEKSYELPDGQVITIGNERFRCPETLFQ
PSFIGMESAGIHETTYNSIMKCDIDIRKDLANNVLSGGTTMYPGIADRMQKEITALAPSTMKIKIAPP
ERKYSVWIGGSILASLSTFQQMWISKQEYDEAGPSIVHRKCF

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

68.4

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#**[BC009978.2](#)**Protein Accession#**[AAH09978.1](#)**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](#)