

Recombinant Human ACTG2 protein, His & T7-tagged

Cat. No. ACTG2-6836H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human ACTG2 aa. (Glu3~Phe376 (Accession # P63267)) fused with N-terminal His & T7 tag was produced in E. coli cells.
Species	Human
Source	E.coli
ProteinLength	Glu3~Phe376
Description	Actins are highly conserved proteins that are involved in various types of cell motility and in the maintenance of the cytoskeleton. Three types of actins, alpha, beta and gamma, have been identified in vertebrates. Alpha actins are found in muscle tissues and are a major constituent of the contractile apparatus. The beta and gamma actins co-exist in most cell types as components of the cytoskeleton and as mediators of internal cell motility. This gene encodes actin gamma 2; a smooth muscle actin found in enteric tissues. Alternative splicing results in multiple transcript variants encoding distinct isoforms. Based on similarity to peptide cleavage of related actins, the mature protein of this gene is formed by removal of two N-terminal peptides.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 45.3kDa.
Endotoxin	<1.0EU per 1ug (determined by the LAL method)

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Purity	>95%
Characteristic	The isoelectric point is 5.3.
Applications	SDS-PAGE; WB; ELISA; IP.
Stability	The thermal stability is described by the loss rate of the target protein. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. (Referring from China Biological Products Standard, which was calculated by the Arrhenius equation.) The loss of this protein is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Storage buffer	Supplied as lyophilized form in PBS, pH7.4, containing 5% trehalose, 0.01% sarcosyl.
Reconstitution	Reconstitute in sterile PBS, pH7.2-pH7.4.

GENE INFORMATION

Gene Name	ACTG2 actin, gamma 2, smooth muscle, enteric [Homo sapiens (human)]
Official Symbol	ACTG2
Synonyms	ACT; ACTE; VSCM; ACTA3; ACTL3; ACTSG; actin-like protein; alpha-actin-3; actin, gamma-enteric smooth muscle
Gene ID	72

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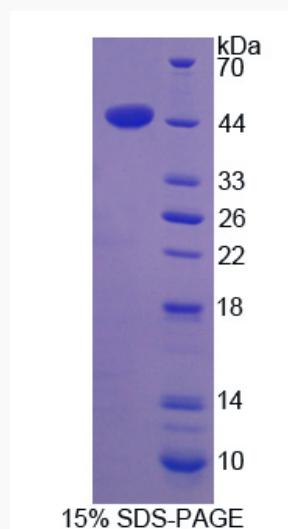
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mRNA Refseq [NM_001199893.1](#)

Protein Refseq [NP_001186822.1](#)

UniProt ID [P63267](#)

SDS-PAGE



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