

Recombinant Mouse Actg1 Protein, His-tagged

Cat. No. Actg1-69M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Actg1 Protein (Met1-Phe375) with N-His tag was expressed in E. coli.
Species	Mouse
Source	E.coli
ProteinLength	Met1-Phe375
Description	Actins are highly conserved proteins that are involved in various types of cell motility and maintenance of the cytoskeleton. In vertebrates, three main groups of actin isoforms, alpha, beta, and gamma, have been identified. The 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. Actin, gamma 1, encoded by this gene, is a cytoplasmic actin found in non-muscle cells. Alternative splicing results in multiple transcript variants.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 43.3 kDa
Purity	> 97%
Applications	Positive Control; Immunogen; SDS-PAGE; WB.

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Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	PBS, pH7.4, containing 0.01% SKL, 1 mM DTT, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in sterile water to a concentration of 0.1-1.0 mg/mL. Do not vortex.
GENE INFORMATION	
Gene Name	Actg1 actin, gamma, cytoplasmic 1 [Mus musculus (house mouse)]
Official Symbol	Actg1
Synonyms	Actg1; actin, gamma, cytoplasmic 1; E51; Actg; Actl; AL023024; actin, cytoplasmic 2; beta-actin FE-3; gamma-actin
Gene ID	11465
mRNA Refseq	NM_009609
Protein Refseq	NP_033739
UniProt ID	P63260