

Recombinant Human ACTg1, His-tagged, GST-tagged

Cat. No. ACTg1-3087H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Actin Gamma 1 (ACTg1)
Species	Human
Source	E.coli
ProteinLength	375
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. Mutations in this gene are associated with DFNA20/26, a subtype of autosomal dominant non-syndromic sensorineural progressive hearing loss. Alternative splicing results in multiple transcript variants.
Form	Supplied as lyophilized form in PBS,pH7.4, containing 5% sucrose, 0.01% sarcosyl.
Molecular Mass	73.8kDa
Endotoxin	<1.0eu per 1ug (determined by the lal</1.0eu
Purity	>95%

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Applications	SDS-PAGE, Western Blot (WB), ELISA (EIA), Immunoprecipitation (IP)
Notes	Small volumes of ACTg1 recombinant protein 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.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 degree C for one month. Aliquot and store at -80 degree C for 12 months. Stability Test: 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 degree 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.
Reconstitution	Reconstitute in sterile PBS, pH 7.2-7.4.
Warning	This product is for research use only. Not for use in diagnostic or therapeutic procedures.

GENE INFORMATION

Gene Name	ACTG1 actin, gamma 1 [Homo sapiens]
Official Symbol	ACTg1
Synonyms	ACTG1; actin, gamma 1; ACTG, deafness, autosomal dominant 20; deafness, autosomal dominant 26 , DFNA20, DFNA26; actin, cytoplasmic 2; cytoskeletal gamma-actin; ACT; ACTG; DFNA20; DFNA26;
Gene ID	71

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mRNA Refseq	NM_001199954
Protein Refseq	NP_001186883
MIM	102560
UniProt ID	P63261
Chromosome Location	17q25
Pathway	Adherens junction, organism-specific biosystem; Adherens junction, conserved biosystem; Arrhythmogenic right ventricular cardiomyopathy (ARVC), organism-specific biosystem; Arrhythmogenic right ventricular cardiomyopathy (ARVC), conserved biosystem; Bacte
Function	ATP binding; identical protein binding; nucleotide binding; protein binding; protein kinase binding; structural constituent of cytoskeleton;