

Recombinant Human ACTG1 Protein, GST-tagged

Cat. No. ACTG1-216H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human ACTG1 full-length ORF (AAH53572, 1 a.a. - 375 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	Wheat Germ
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.[provided by RefSeq, Jan 2011]
Molecular Mass	66.99 kDa
AA Sequence	MEEEIAALVIDNGSGMCKAGFAGDDAPRAVFPSIVGRPRHQGVMVGMGQKDSYVG DEAQSKRGILTLKYPIEHGIVTNWDDMEKIWHHTFYNELRVAPEEHPVLLTEAPLNPK ANREKMTQIMFETFNTPAMYVAIQAVLSLYASGRTTGIVMDSGDGVTHTVPIYEGYA LPHAILRLDLAGRDLTDYLMKILTERGYSFTTTAEREIVRDIKEKLCYVALDFEQEMAT

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AASSSSLEKSYELPDGQVITIGNERFRCPEALFQPSFLGMESCGIHETTFSIMKCDV
DIRKDLYANTVLSGGTTMYPGIADRMQKEITALAPSTMKIKIIPPERKYSVWIGGSILA
SLSTFQQMWISKQEYDESGPSIVHRKCF

Applications

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

Notes

Best use within three months from the date of receipt of this protein.

Storage

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

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](#)

mRNA Refseq

[NM_001199954](#)

Protein Refseq

[NP_001186883](#)

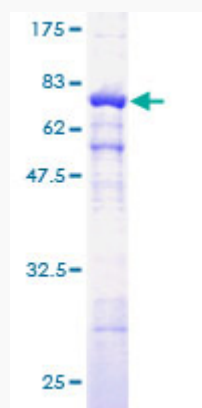
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MIM 102560

UniProt ID P63261



12.5% SDS-PAGE Stained with Coomassie Blue.

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