

# Recombinant Human ACTG1 Protein, MYC/DDK-tagged, C13 and N15-labeled

**Cat. No.** ACTG1-025H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
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| <b>Product Overview</b> | ACTG1 MS Standard C13 and N15-labeled recombinant protein (NP_001605) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Description</b>      | Actins are highly conserved proteins that are involved in various types of cell motility and in maintenance of the cytoskeleton. Three main groups of actin isoforms have been identified in vertebrate animals: alpha, beta, and gamma. 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 all cell types. Mutations in this gene are associated with DFNA20/26, a subtype of autosomal dominant non-syndromic sensorineural progressive hearing loss and also with Baraitser-Winter syndrome. Alternative splicing results in multiple transcript variants. |
| <b>Molecular Mass</b>   | 41.8 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>AA Sequence</b>      | MEEEIAALVIDNGSGMCKAGFAGDDAPRAVFPSIVGRPRHQGVMVGMGQKDSYVG<br>DEAQSKRGILTLKYPIEHGIVTNWDDMEKIWHHTFYNELRVAPEEHPVLLTEAPLNPK<br>ANREKMTQIMFETFNTPAMYVAIQAVLSLYASGRTTGIVMDSGDGVTHTVPIYEGYA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

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LPHAILRLDLAGRDLTDYLMKILTERGYSFTTTAEREIVRDIKEKLCYVALDFEQEMAT  
 AASSSSLEKSYELPDGQVITIGNERFRCPEALFQPSFLGMESCGIHETTENSIMKCDV  
 DIRKDLYANTVLSGGTTMYPGIADRMQKEITALAPSTMKIKIIPPERKYSVWIGGSILA  
 SLSTFQQMWISKQEYDESGPSIVHRKCFTRTRPLEQKLISEEDLAANDILDYKDDDD  
 KV

**Purity** > 80% as determined by SDS-PAGE and Coomassie blue staining

**Stability** Stable for 3 months from receipt of products under proper storage and handling conditions.

**Storage** Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

**Concentration** 50 µg/mL as determined by BCA

**Storage Buffer** 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

## GENE INFORMATION

**Gene Name** ACTG1 actin gamma 1 [ Homo sapiens (human) ]

**Official Symbol** ACTG1

**Synonyms** ACTG1; actin gamma 1; ACT; ACTG; DFNA20; DFNA26; HEL-176; actin, cytoplasmic 2; cytoskeletal gamma-actin; epididymis luminal protein 176

**Gene ID** 71

**mRNA Refseq** NM\_001614

**Protein Refseq** NP\_001605

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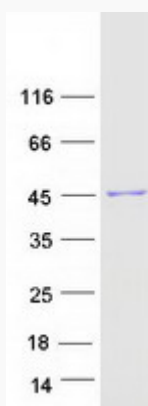
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MIM 102560

UniProt ID P63261

SDS-PAGE



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