

Product datasheet for TP301730L

gamma Actin (ACTG1) (NM_001614) Human Recombinant Protein

Product data:

Product Type: Recombinant Proteins

Description: Recombinant protein of human actin, gamma 1 (ACTG1), 1 mg

Species: Human

Expression Host: HEK293T

Expression cDNA Clone or AA Sequence: >RC201730 protein sequence
Red=Cloning site Green=Tags(s)

MEEEIAALVIDNGSGMCKAGFAGDDAPRAVFPVGRPRRHQGVVMGMGQKDSYVGDEAQS KRGI LTKYP
IEHGIVTNWDDMEKIWHHTFYNELRVAP EHPVLLTEAPLNPKANREKMTQIMFETFNTPAMYVAIQAVL
SLYASGR TTGIVMDSGDGVTHTVPIYEGYALPHAILRLDLAGRDLTDYLMKIL TERGYSFTTTAEREIVR
DIKEKLCYVALDFEQEMATAASSSSLEKSYELPDGQVITIGNERFRCPEALFQPSFLGMESCGIHETTFN
SIMKCDVDIRKDL YANTVLSGGTTMYPGIADRMQKEITALAPSTMKIKI IAPPERKYSVWIGGSILASLS
TFQQMWISKQEYDESGPSIVHRKCF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag: C-Myc/DDK

Predicted MW: 41.6 kDa

Concentration: >0.05 µg/µL as determined by microplate BCA method

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

Buffer: 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol

Preparation: Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.

Note: For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.

Storage: Store at -80°C.

Stability: Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

RefSeq: [NP_001605](#)

Locus ID: 71



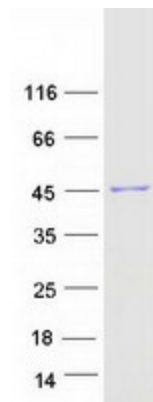
[View online »](#)

UniProt ID:	P63261
RefSeq Size:	2004
Cytogenetics:	17q25.3
RefSeq ORF:	1125
Synonyms:	ACT; ACTG; DFNA20; DFNA26; HEL-176

Summary: 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. [provided by RefSeq, Jul 2017]

Protein Pathways: Adherens junction, Arrhythmogenic right ventricular cardiomyopathy (ARVC), Dilated cardiomyopathy, Focal adhesion, Hypertrophic cardiomyopathy (HCM), Leukocyte transendothelial migration, Pathogenic Escherichia coli infection, Regulation of actin cytoskeleton, Tight junction, Vibrio cholerae infection, Viral myocarditis

Product images:



Coomassie blue staining of purified ACTG1 protein (Cat# [TP301730]). The protein was produced from HEK293T cells transfected with ACTG1 cDNA clone (Cat# [RC201730]) using MegaTran 2.0 (Cat# [TT210002]).