

Recombinant Human Actin, Beta, His-tagged

Cat. No. ACTB-3030H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human β -Actin/ACTB is produced by our E. coli expression system. The target protein is expressed with sequence (Met1-Phe375) of Human ACTB fused with a 6His tag at the C-terminus.
Species	Human
Source	E.coli
ProteinLength	1-375 a.a.
Description	This gene encodes one of six different actin proteins. Actins are highly conserved proteins that are involved in cell motility, structure, and integrity. This actin is a major constituent of the contractile apparatus and one of the two nonmuscle cytoskeletal actins.
Form	Supplied as a 0.2 μ m filtered solution of 10mM Tris-HCl, 0.1% TritonX-100, 2mM DTT, pH 8.0
AA Sequence	MDDDIAALVVDNGSGMCKAGFAGDDAPRAVFPSIVGRPRHQGVMVGMGQKDSYV GDEAQSKRGIL TLKYPIEHGIVTNWDDMEKIWHHTFYNELRVAPEEHPVLLTEAPLN PKANREKMTQIMFETFTP AMYVAIQAVLSLYASGRTTGIVMDSGDGVTHTVPIYEG YALPHAILRLDLAGRDLDYLMKILTE RGYSFTTTAEREIVRDIKEKLCYVALDFEQEM ATAASSSSLEKSYELPDGQVITIGNERFRCPEA LFQPSFLGMESCGIHETTFNSIMKC DVDIRKDL YANTVLSGGTTMYPGIADRMQKEITALAPSTM KIKIIPPERKYSVWIGG SILASLSTFQQMWISKQEYDESGPSIVHRKCFLEHHHHHH

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Endotoxin	Less than 0.1 ng/μg (1 IEU/μg).
Purity	Greater than 95% as determined by SEC-HPLC and reducing SDS-PAGE.
Storage	Store at < -20°C, stable for 6 months after receipt. Please minimize freeze-thaw cycles.
Shipping	The product is shipped on dry ice/ice packs.

GENE INFORMATION

Gene Name	ACTB actin, beta [Homo sapiens (human)]
Official Symbol	ACTB
Synonyms	ACTB; actin, beta; TPT; HHG1; HLP3; PS1TP5BP1; actin, cytoplasmic 1; beta cytoskeletal actin; PS1TP5-binding protein 1; Actin, cytoplasmic 1; Beta-actin; Actin, cytoplasmic 1, N-terminally processed
Gene ID	60
mRNA Refseq	NM_001101
Protein Refseq	NP_001092
MIM	102630
UniProt ID	P60709
Chromosome Location	7p22

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Pathway	Adherens junction; Arrhythmogenic right ventricular cardiomyopathy; Bacterial invasion of epithelial cells
Function	ATP binding; contributes_ to RNA polymerase II core promoter proximal region sequence-specific DNA binding; Tat protein binding

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