

## Recombinant Human Actin, Beta, His-tagged

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

### SPECIFICATION

**Product Overview**      Recombinant Human  $\beta$ -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  $\mu$ m filtered solution of 10mM Tris-HCl, 0.1% TritonX-100, 2mM DTT, pH 8.0

**AA Sequence**

```
MDDIAALVVDNGSGMCKAGFAGDDAPRAVFPVGRPRHQGVMVGMGQKDSYV
GDEAQSQRGIL TLKYPIEHGIVTNWDDMEKIWHHTFYNELRVAPEEHPVLLTEAPLN
PKANREKMTQIMFETFTP AMYVAIQAVLSLYASGRTTGIVMDSGDGVTHTVPIYEG
YALPHAILRLDLAGRDLTDYLMKILTE RGYSFTTTAEREIVRDIKEKLCYVALDFEQEM
ATAASSSSLEKSYELPDGQVITIGNERFRCPEA LQFPSFLGMESCGIHETTTFNSIMKC
DVIDRKDLYANTVLSGGTTMYPGIADRMQKEITALAPSTM KIKIIPPERKYSVWIGG
SILASLSTFQQMWISKQEYDESGPSIVHRKCFLEHHHHHH
```

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

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">ACTB actin, beta [ Homo sapiens (human) ]</a>
<b>Official Symbol</b>	ACTB
<b>Synonyms</b>	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
<b>Gene ID</b>	<a href="#">60</a>
<b>mRNA Refseq</b>	<a href="#">NM_001101</a>
<b>Protein Refseq</b>	<a href="#">NP_001092</a>
<b>MIM</b>	<a href="#">102630</a>
<b>UniProt ID</b>	P60709
<b>Chromosome Location</b>	7p22

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

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