

Recombinant Human Beta-actin/ACTB Protein

Catalog No.: RP02968LQ Recombinant 2 Publications

Sequence Information

Species **Gene ID** **Swiss Prot**
 Human 60 P60709

Tags

C-His

Synonyms

Actin Cytoplasmic 1; Beta-Actin; ACTB; β -actin

Background

Actins are ubiquitous globular and highly conserved proteins that are involved in various types of cell motility, structure, and integrity. 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. ACTB is a major constituent of the contractile apparatus and one of the two nonmuscle cytoskeletal actins. Polymerization of globular actin (G-actin) leads to a structural filament (F-actin) in the form of a two-stranded helix. Each actin can bind to 4 others.

Basic Information

Description

Recombinant Human Beta-actin/ACTB Protein is produced by *E. coli* expression system. The target protein is expressed with sequence (Asp2-Phe375) of Human Beta-actin/ACTB (Accession #NP_001092.1) fused with a 6xHis tag at the C-terminus.

Bio-Activity

Shipping

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at -70°C. This product is stable at $\leq -70^{\circ}\text{C}$ for up to 1 year from the date of receipt. For optimal storage, aliquot into smaller quantities after centrifugation and store at recommended temperature. Avoid repeated freeze-thaw cycles.
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Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

Product Information

Source **Purification**
E. coli $\geq 90\%$ as
 determined by SDS-PAGE.

Calculated MW **Observed MW**
 42.8 kDa 43 kDa

Endotoxin
 < 1 EU/ μg of the protein by LAL method.

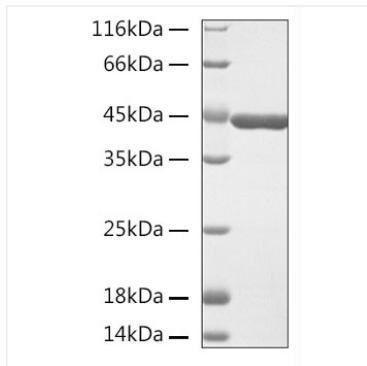
Formulation
 Supplied as a 0.2 μm filtered solution of 10mM Tris-HCl, 0.1% TritonX-100, 2mM DTT, 10% Glycerol, pH 8.0.

Reconstitution

Contact

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Validation Data



Recombinant Human Beta-actin/ACTB
Protein was determined by SDS-PAGE under
reducing conditions with Coomassie Blue.