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Recombinant Human Beta-actin/ACTB Protein

Catalog No.: RP02968LQ   Recombinant

Sequence Information

Species	Gene ID	Swiss Prot
Human	60	P60709

Tags
C-His

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

Product Information

Source	Purification
E. coli	> 90% by SDS-PAGE.

Calculated MW	Observed MW
42.8 kDa	43 kDa

Endotoxin
<1EU/μg

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

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 6×His tag at the C-terminus.

Bio-Activity

Storage
Store at -70℃. This product is stable at ≤ -70℃ 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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Contact

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Validation Data
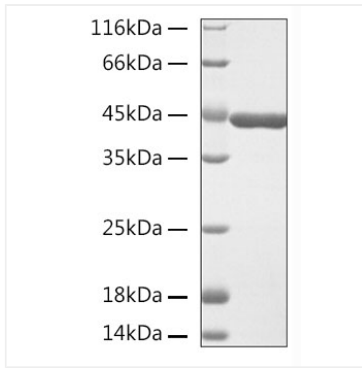
Recombinant Human Beta-actin Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 43 KDa.