

## 32-8041: Recombinant Human beta-Actin/ACTB (C-6His)

**Gene :** ACTB  
**Gene ID :** 60  
**Uniprot ID :** P60709

### Description

Source: E.coli.  
MW :42.8kD.

Recombinant Human beta-Actin is produced by our E.coli expression system and the target gene encoding Asp2-Phe375 is expressed with a 6His tag at the C-terminus. 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.

### Product Info

**Amount :** 10 µg / 50 µg  
**Content :** Supplied as a 0.2 µm filtered solution of 10mM TrisHCl, 0.1% TritonX-100, 2mM DTT, pH 8.0.  
**Storage condition :** Store at -20°C, stable for 6 months after receipt. Please minimize freeze-thaw cycles.  
**Amino Acid :** DDDIAALVVDNNGSGMCKAGFAGDDAPRAVFP SIVGRPRHQGVMVGMGQKDSYVGDEAQS KRGILT LKYP I E H  
GIVTNWDDMEKIWHHTFYNELRVAP E EHPVLLTEAPLNPKANREKMTQIMFETFNTPAMYVAIQAVLSLYASGR  
TTGIVMDSGDGVTHTVPIYEGYALPHAILRLDLAGRDLTDYLMKILTERGYSFTTTAEREIVRDIKEKLCYVALDFE  
QEMATAASSSLEKSYELPDGQVITIGNERFRCPEALFQPSFLGMESCGIHETTFNSIMKCDVDIRKDL YANTVLS  
GGTTMYPGIADRMQKEITALAPSTMKIKI I APPERKYSVWIGGSILASLSTFQQMWISKQEYDESGPSIVHRK CFL  
EHHHHHH

### Application Note

**Endotoxin :** Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test.