

ACTA1 Protein, Human, Recombinant (His)

General Information

Synonyms: Alpha-actin-1; Actin, alpha skeletal muscle; ACTA; alpha skeletal muscle; ACTA1

Protein Construction: 3-377 aa

Species: Human

Expression Host: E. coli

Accession: P68133

Molecular Weight: 45.8 kDa (predicted)

AA Sequence:

```
DEDETTALVCDNGSGLVKAGFAGDDAPRAVFPISIVGRPRHQGVMVGMGQKDSYVGDEAQSKRGILTLKYPIE
HGIITNWDDMEKIWHHTFYNELRVAPEEHPTLLTEAPLNPKANREKMTQIMFETFNVPAMYVAIQAVLSLYAS
GRRTGIVLDSGDGVTHNVPIYEGYALPHAIMRLDLAGRDLTDYLMKILTERGYSFVTTAEREIVRDIKEKLCYVAL
DFENEMATAASSSSLEKSYELPDGQVITIGNERFRCPETLFQPSFIGMESAGIHETTYNSIMKCDIDIRKDLNAN
NVMSGGTTMYPGIADRMQKEITALAPSTMKIKIIPPERKYSVWIGGSILASLSTFQQMWITKQEYDEAGPSIV
HRKCF
```

QC Testing

Biological Activity: Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.

Purity: > 90% as determined by SDS-PAGE.

Endotoxin: < 1.0 EU/μg of the protein as determined by the LAL method.

Formulation: Tris-based buffer, 50% glycerol

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months.

Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Actins are highly conserved proteins that are involved in various types of cell motility and are ubiquitously expressed in all eukaryotic cells.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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