

## Recombinant Human ACTA2 protein, His-tagged

Cat. No. ACTA2-7153H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human ACTA2 protein(NP_001135417.1)(1-377 aa) was fused to His Tag and expressed in E.coli.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	1-377 aa
<b>Description</b>	This gene encodes one of six different actin proteins. Actins are highly conserved proteins that are involved in cell motility, structure, integrity, and intercellular signaling. The encoded protein is a smooth muscle actin that is involved in vascular contractility and blood pressure homeostasis. Mutations in this gene cause a variety of vascular diseases, such as thoracic aortic disease, coronary artery disease, stroke, and Moyamoya disease, as well as multisystemic smooth muscle dysfunction syndrome.
<b>Form</b>	The purified protein was Lyophilized from sterile PBS (58mM Na <sub>2</sub> HPO <sub>4</sub> , 17mM NaH <sub>2</sub> PO <sub>4</sub> , 68mM NaCl, pH7.). 5 % trehalose and 5 % mannitol are added as protectants before lyophilization.
<b>AA Sequence</b>	MCEEDSTALVCDNGSGLCKAGFAGDDAPRAVFP SIVGRPRHQGV MVMGMGQKDS YVGDEAQSKRGILT LKYP I EHG IITNWDDMEKIWHHSFYNELRVAPEEHPTLLTEAPL NPKANREKMTQIMFETFNVPAMYVAIQAVLSLYASGR TTGIVLDSGDGVTHNVPIYE GYALPHAIMRLDLAGRDLTDYLMKILTERGYSFVTTAEREIVRDIKEKLCYVALDFENE MATAASSSSLEKSYELPDGQVITIGNERFRCPETLFQPSFIGMESAGIHETTYNSIMK

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CDIDIRKDLYANNVLSSGGTTMYPGIADRMQKEITALAPSTMKIKIIPPERKYSVWIGG  
SILASLSTFQQMWISKQEYDEAGPSIVHRKCF

**Purity** 85%, by SDS-PAGE with Coomassie Brilliant Blue staining.

**Stability** Store for up to 12 months at -20°C to -80°C as lyophilized powder.

**Storage** Short-term storage: Store at 2-8°C for (1-2 weeks).  
Long-term storage: Aliquot and store at -20°C to -80°C for up to 3 months, buffer containing 50% glycerol is recommended for reconstitution. Avoid repeat freeze-thaw cycles.

**Reconstitution** Reconstitute at 0.25 g/μl in 200 μl sterile water for short-term storage.  
Reconstitution with 200 μl 50% glycerol solution is recommended for longer term storage (see Stability and Storage for more details).  
If a different concentration is needed for your purposes please adjust the reconstitution volume as required (please note: the ion concentration of the final solution will vary according to the volume used).  
Note: Centrifuge vial before opening. When reconstituting, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution.

## GENE INFORMATION

**Gene Name** ACTA2 actin alpha 2, smooth muscle [ Homo sapiens (human) ]

**Official Symbol** ACTA2

**Synonyms** ACTSA

**Gene ID** 59

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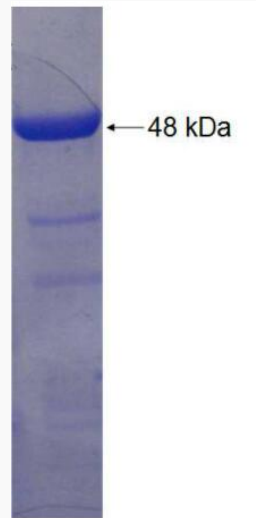
mRNA Refseq [NM\\_001141945.2](#)

Protein Refseq [NP\\_001135417.1](#)

MIM [102620](#)

UniProt ID [P62736](#)

SDS-PAGE



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