

Active Recombinant Full Length Human ACTA2 Protein, C-Flag-tagged

Cat. No. ACTA2-676HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human ACTA2 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	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.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Bio-activity	Pull-down assay
Molecular Mass	41.8 kDa
AA Sequence	MCEEDSTALVCDNGSGLCKAGFAGDDAPRAVFPSIVGRPRHQGVMMVGMGQKDS YVGDEAQSKRGILTLK YPIEHGIITNWDDMEKIWHHSFYNELRVAPEEHPTLLTEAPL NPKANREKMTQIMFETFNVPAMYVAIQA VLSLYASGRTTGIVLDSGDGVTHNVPIYE GYALPHAIMRLDLAGRDLTDYLMKILTERGYSFVTTAEREI VRDIKEKLCYVALDFEN

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EMATAASSSSLEKSYELPDGQVITIGNERFRCPETLFQPSFIGMESAGIHETT YNSIM
 KCDIDIRKDLYANNVLSGGTTMYPGIADRMQKEITALAPSTMKIKIIPPERKYSVWIG
 GSILAS
 LSTFQQMWISKQEYDEAGPSIVHRKCFTRTRPLEQKLISEEDLAANDILDYKDDDDK
 V

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining.

Stability Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

Storage Store at -80 centigrade.

Concentration >50 ug/mL as determined by microplate BCA method.

Preparation Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.

Protein Pathways Vascular smooth muscle contraction

Full Length Full L.


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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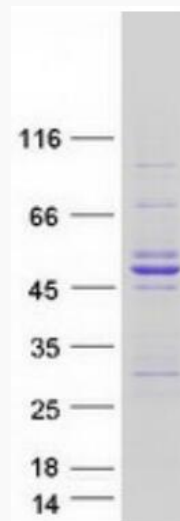
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mRNA Refseq [NM_001141945.3](#)

Protein Refseq [NP_001135417.1](#)

MIM [102620](#)

UniProt ID [P62736](#)



Coomassie blue staining of purified ACTA2 protein.

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