

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	MCEEDSTALVCDNGSGLCKAGFAGDDAPRAVFPSIVGRPRHQGMVGMGQKDS YVGDEAQSKRGILTLK YPIEHGIITNWDDMEKIWHHSFYNELRVAPEEHPTLLTEAPL NPKANREKMTQIMFETFNVPAMYVAIQA VLSLYASGRTTGIVLDSGDGVTHNVPPIE 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

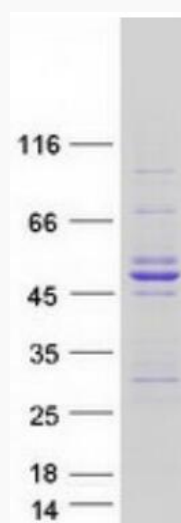
Gene Name	ACTA2 actin alpha 2, smooth muscle [Homo sapiens (human)]
Official Symbol	ACTA2
Synonyms	ACTSA
Gene ID	59

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mRNA Refseq	NM_001141945.3
Protein Refseq	NP_001135417.1
MIM	102620
UniProt ID	P62736



Coomassie blue staining of purified ACTA2 protein.