

Recombinant Human ACTA2 Protein, His-tagged

Cat. No. ACTA2-01H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human ACTA2 Protein, fused to His-tag, was expressed in E. coli.
Species	Human
Source	E.coli
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	Supplied as a 0.2 µm filtered solution in PBS (pH 7.4).
Molecular Mass	~44.5 KDa
AA Sequence	MGSSHHHHHSSGLVPRGSHMGSHMEEEDSTALVCDNGSGLCKAGFAGDDAPRA VFPSIVGRPRHQGVVMVGMGQKDSYVGDEAQSKRGILTLYPIEHGIITNWDDMEKIW HHSFYNELRVAPEEHPTLLTEAPLNPKANREKMTQIMFETFNVPAMYVAIQAVLSLY ASGRTTGIVLDSDGDGVTHNVPIYEGYALPHAIMRLDLAGRDLTDYLMKILTERGYSFV TTAEREIVRDIKEKLCYVALDFENEMATAASSSSLEKSYELPDGQVITIGNERFRCPE TLFQPSFIGMESAGIHETTYNSIMKCDIDIRKDLYANNVLSGGTTMYPGIADRMQKEIT ALAPSTMKIKIIPPERKYSVWIGGSILASLSTFQQMWISKQEYDEAGPSIVHRKCF

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Purity	>90%
Storage	Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Concentration	0.73 mg/ml
Official Full Name	Actin alpha 2, smooth muscle

GENE INFORMATION

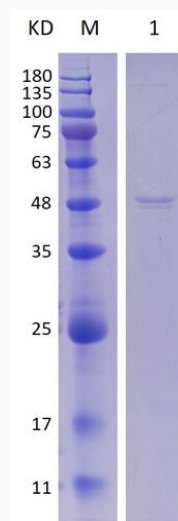
Gene Name	ACTA2 actin alpha 2, smooth muscle [Homo sapiens (human)]
Official Symbol	ACTA2
Synonyms	ACTSA
Gene ID	59
mRNA Refseq	NM_001141945
Protein Refseq	NP_001135417
MIM	102620
UniProt ID	P62736

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SDS-PAGE



12% reducing SDS-PAGE analysis of purified Human Actin Alpha 2.

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