

Recombinant Full Length Human ACTA2 Protein

Cat. No. ACTA2-05HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human alpha smooth muscle Actin with a proprietary tag at N terminal; MWt 67.21 kDa inclusive of tag.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	377 amino acids
Description	The protein encoded by this gene belongs to the actin family of proteins, which are highly conserved proteins that play a role in cell motility, structure and integrity. Alpha, beta and gamma actin isoforms have been identified, with alpha actins being a major constituent of the contractile apparatus, while beta and gamma actins are involved in the regulation of cell motility. This actin is an alpha actin that is found in skeletal muscle. Defects in this gene cause aortic aneurysm familial thoracic type 6. Multiple alternatively spliced variants, encoding the same protein, have been identified.
Form	Liquid
Molecular Mass	67.210kDa inclusive of tags
AA Sequence	MCEEDSTAL VCDNGSGLCK AGFAGDDAPR AVFPSIVGRP RHQGVVMVGMG QKDSYVGDEA QSKRGILTLK YPIEHGIITN WDDMEKIWHH SFYNELRVAP EEHPTLLTEA PLNPKANREK MTQIMFETFN VPAMYVAIQA VLSLYASGRT TGIVLDSGDG VTHNVPIYEG YALPHAIMRL DLAGRDLDY LMKILTERGY

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SFVTTAEREI VRDIKEKLCY VALDFENEMA TAASSSSLEK SYELPDGQVI
 TIGNERFRCP ETLFQPSFIG MESAGIHETT YNSIMKCDID IRKDLYANNV
 LSGGTTMYPG IADRMQKEIT ALAPSTMKIK IIAPPERKYS VWIGGSILAS
 LSTFQQMWIS KQEYDEAGPS IVHRKCF

Purity	Proprietary Purification
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80 centigrade. Avoid freeze / thaw cycles.
Storage Buffer	pH: 8.00. Constituents: 0.3% Glutathione, 0.79% Tris HCl.

GENE INFORMATION

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

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