

Product information



ACTA2, 3-377aa

Human, His-tagged, Recombinant, *E.coli*

Cat. No. IBATGP1719

Full name: Actin, aortic smooth muscle

NCBI Accession No.: NP_001604

Synonyms: AAT6, ACTSA, MYMY5

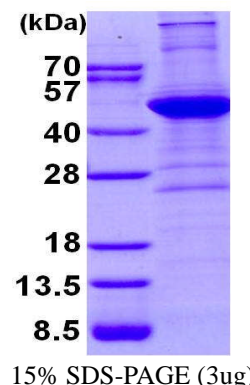
Description: ACTA2 belongs to the actin family of proteins, which are highly conserved proteins that play a role in cell motility, structure and integrity. Alpha, beta and gamma actin isoforms have been identified, with alpha actins being a major constituent of the contractile apparatus, while beta and 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. Recombinant human ACTA2 protein, fused to His-tag at N-terminus, was expressed in *E.coli* and purified by using conventional chromatography techniques.

Form: Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 10% glycerol

Molecular Weight: 44.4 kDa (400aa), confirmed by MALDI-TOF

Purity: > 85% by SDS - PAGE

Concentration: 1 mg/ml (determined by Bradford assay)



Sequences of amino acids:

MGSSHHHHH SSGLVPRGSH MGSHEEEEDS TALVCDNGSG LCKAGFAGDD APRAVFPSIV GRPRHQGVMV GMGQKDSYVG DEAQSKRGIL
TLKYP1EHGI ITNWDDMEKI WHHSFYNELR VAPEEHPTLL TEAPLNPKAN REKMTQIMFE TFNVPAMYVA IQAVLSLYAS GRTTGIVLDS
GDGVTHNVPI YEGYALPHAI MRLDLAGRDL TDYLMKILTE RGYSFVTAE REIVRDIKEK LCYVALDFEN EMATAASSSS LEKSYELPDG
QVITIGNERF RCPETLFQPS FIGMESAGIH ETTYNSIMKC DIDIRKDYLA NNVLSGGTTM YPGIADRMQK EITALAPSTM KIKI IAPPER
KYSWVIGGSI LASLSTFQQM WISKQEYDEA GPSIVHRKCF

General references:

Sakai, H., *et al.* (2012) *Hum. Genet.* 131 (4), 591-599

Regalado, E., *et al.* (2011) *Am. J. Med. Genet. A* 155A (9), 2125-2130.

Storage: Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C.

Avoid repeated freezing and thawing cycles.

For research use only. This product is not intended or approved for human, diagnostics or veterinary use.



Manufactured for:

Immuno-Biological Laboratories, Inc. (IBL-America)
8201 Central Ave. NE, Suite P, Minneapolis, Minnesota 55432, USA
Phone: (888) 523-1246 Fax: (763) 780-2988
Email: info@ibl-america.com Web: www.ibl-america.com