

## ACTA2 Human

**Description:** ANKRD1 Human Recombinant produced in E. coli is a single polypeptide chain containing 342 amino acids (1-319) and having a molecular mass of 38.6 kDa. ANKRD1 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

**Catalog #:** PRPS-1227

For research use only.

**Synonyms:** Actin Alpha 2 Smooth Muscle Aorta, Cell Growth-Inhibiting Gene 46 Protein, Actin Aortic Smooth Muscle, Alpha-Cardiac Actin, Alpha-Actin-2, MYMY5, ACTSA, ACTVS, AAT6.

**Source:** E.coli.

**Physical Appearance:** Sterile Filtered colorless solution.

**Amino Acid Sequence:** MGSSHHHHHH SSGLVPRGSH MGSHMEEEDS TALVCDNGSG  
LCKAGFAGDD APRAVFPISV GRPRHQGVMV GMGQKDSYVG DEAQSKRGIL TLKYPIEHGI  
ITNWDDMEKI WHHSFYNELR VAPEEHPTLL TEAPLNPKAN REKMTQIMFE TFNVPAMYVA  
IQAVLSLYAS GRTTGIVLDS GDGVTHNVPI YEGYALPHA1 MRLDLAGRDL TDYLMKILTE  
RGYSFVTAE RE

**Purity:** Greater than 85% as determined by SDS-PAGE.

**Formulation:**

The ACTA2 solution contains 20mM Tris-HCl buffer (pH 8.0), 0.15M NaCl and 10% glycerol.

**Stability:**

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

**Usage:**

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

**Introduction:**

ACTA2 is a member of the actin family of proteins, an extremely conserved family of proteins which takes part in cell motility, structure and integrity. Three types of actin isoforms are known: Alpha, beta and gamma. Alpha actins are a main factor of the contractile mechanism, and beta and gamma take part in the regulation of cell motility. ACTA2 is an alpha actin which is located in skeletal muscle. Mutations in ACTA2 cause aortic aneurysm familial thoracic type 6. Various alternatively spliced variants, encoding the same protein were identified.

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