

## 32-3151: ACTA2 Recombinant Protein

**Alternative Name :** 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.

### Description

Source : E.coli. 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. 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.

### Product Info

**Amount :** 10 µg  
**Purification :** Greater than 85% as determined by SDS-PAGE.  
**Content :** The ACTA2 solution contains 20mM Tris-HCl buffer (pH 8.0), 0.15M NaCl and 10% glycerol.  
**Storage condition :** 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.  
**Amino Acid :** MGSSHHHHHH SGLVPRGSH MGSHEEEDS TALVCDNGSG LCKAGFAGDD APRAVFPSIV GRPRHQGVMV GMGQKDSYVG DEAQSKRGIL TLKYPHIEHGI ITNWDDMEKI WHHSFYNELR VAPEEHPTLL TEAPLNPKAN REKMTQIMFE TFNVPAMYVA IQAVLSLYAS GRTTGIVLDS GDGVTHNVPI YEGYALPHAI MRLDLAGRDL TDYLMKILTE RGYSFVTTAE REIVRDIKEK LCYVALDFEN EMATAASSSS LEKSYELPDG QVITIGNERF RCPETLFQPS FIGMESAGIH ETTYNSIMKC DIDIRKDLA NNVLSGGTTM YPGIADRMQK EITALAPSTM KIKIAPPER KYSVWIGGSI LASLSTFQQM WISKQEYDEA GPSIVHRKCF.

