

Actin, Alpha 2, Smooth Muscle, Aorta Human Recombinant

Item Number	rAP-2719
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.
Description	ACTA2 Human Recombinant produced in E. coli is a single polypeptide chain containing 400 amino acids (3-377) and having a molecular mass of 44.4 kDa. ACTA2 is fused to a 25 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.
Uniprot Accession Number	P62736
Amino Acid Sequence	MGSSHHHHHH SSSLVPRGSH MGSHEEEDS TALVCDNGSG LCKAGFAGDD APRAVFPSIV GRPRHQGMV GMGQKDSYVG DEAQSKRGIL TLKYPIEHGI ITNWDDMEKI WHHSFYNELR VAPEE- HPTLL TEAPLNPKAN REKMTQIMFE TFNVPAMYVA IQAVLSLYAS GRITGIVLDS GDGVTHNVPI YEGYALPHAI MRLDLGRDL TDYLMKILTE RGYSFVTTAE REIVRDIKEK LCYVALDFEN EMATAASSSS LEKSYELPDG QVITIGNERF RCPETLFQPS FIGMESAGIH ETTYNSIMKC DIDIRKDLA NNVLSGGTTM YPGIADRMQK EITALAPSTM KIKIAPPER KYSVWIGGSI LASLSTFQQM WISKQEYDEA GPSIVHRKCF.
Source	E.coli.
Physical Appearance and Stability	Sterile Filtered colorless solution. 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.
Formulation and Purity	The ACTA2 solution contains 20mM Tris-HCl buffer (pH 8.0), 0.15M NaCl and 10% glycerol. Greater than 85% as determined by SDS-PAGE.
Application	
Solubility	
Biological Activity	
Shipping Format and Condition	Lyophilized powder at room temperature.

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for **Research Use Only**