
Product Data Sheet

Product Name: ACTA2 Human
 Cat. No.: GP22672
 Batch No.: 1

Product Data

Purity	>98%	Source	E.coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
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.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSHEEEDS TALVCDNGSG LCKAGFAGDD APRAVFPSIV GRPRHQGMV GMGQKDSYVG DEQSKRGIL TLKYPIEHGI ITNWDDMEKI WHHSFYNELR VAPEEHPTLL TEAPLNPKAN REKMTQIMFE TFNVPMYVA IQAVLSLYAS GRTTGIVLDS GDGVTHNVPI YEGYALPHAI MRLDLAGRDL TDYLMKILTE RGYSFVTTAE REIVRDIKEK LCYVALDFEN EMATAASSSS LEKSYELPDG QVITIGNERF RCPETLFQPS FIGMESAGIH ETTYNSIMKC DIDIRKDLYA NNVLSGGTTM YPGIADRMQK EITALAPSTM KIKIIPPER KYSVWIGGSI LASLSTFQQM WISKQEYDEA GPSIVHRKCF.		
Formulation	The ACTA2 solution contains 20mM Tris-HCl buffer (pH 8.0), 0.15M NaCl and 10% glycerol.		

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.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer

Caution: Product has not been fully validated for medical applications. For research use only.

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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.

Background

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.

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