

Datasheet for ABIN7505156

Smooth Muscle Actin Protein (AA 2-377) (His tag)[Go to Product page](#)

Overview

Quantity:	100 µg
Target:	Smooth Muscle Actin (ACTA2)
Protein Characteristics:	AA 2-377
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This Smooth Muscle Actin protein is labelled with His tag.

Product Details

Sequence:	Cys 2-Phe 377
Characteristics:	A DNA sequence encoding the Human ACTA2 protein (P62736) (Cys 2-Phe 377) was expressed with a N-His tag.
Purity:	> 95 % as determined by reducing SDS-PAGE.

Target Details

Target:	Smooth Muscle Actin (ACTA2)
Alternative Name:	ACTA2 (ACTA2 Products)
Background:	Abbreviation: ACTA2 Target Synonym: a actin,AAT6,Actin aortic smooth muscle,ACTSA,GIG46,Growth inhibiting gene 46,MYMY5 Background: Actin proteins are major components of the eukaryotic cytoskeleton. At least six

Target Details

vertebrate actin isoforms have been identified. The cytoplasmic β - and γ -actin proteins are referred to as "non-muscle" actin proteins as they are predominantly expressed in non-muscle cells where they control cell structure and motility. The α -cardiac and α -skeletal actin proteins are expressed in striated cardiac and skeletal muscles, respectively. The smooth muscle α -actin and γ -actin proteins are found primarily in vascular smooth muscle and enteric smooth muscle, respectively. The α -smooth muscle actin (ACTA2) is also known as aortic smooth muscle actin. These actin isoforms regulate the contractile potential of muscle cells.

Molecular Weight: Calculated MW: 41.25 kDa
Observed MW: 42 kDa

UniProt: [P62736](#)

Pathways: [Myometrial Relaxation and Contraction, Skeletal Muscle Fiber Development](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

Buffer: Lyophilized from sterile PBS, pH 7.4.
Normally 5 % - 8 % trehalose, mannitol and 0.01 % Tween80 are added as protectants before lyophilization.

Storage: 4 °C, -20 °C, -80 °C

Storage Comment: Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C.
Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

Expiry Date: 12 months