

Product datasheet

# Recombinant Human alpha smooth muscle Actin protein ab134555

1 Image

Overview

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<b>Product name</b>	Recombinant Human alpha smooth muscle Actin protein
<b>Protein length</b>	Full length protein

Description

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<b>Nature</b>	Recombinant
<b>Source</b>	Escherichia coli

Amino Acid Sequence

<b>Accession</b>	<a href="#">P62736</a>
<b>Species</b>	Human
<b>Sequence</b>	MGSSHHHHHSSGLVPRGSHMGSHMEEEDSTALVCDNGSGLCKAGFAGDD APRAVFPSIVGRPRHQGMVGMGQKDSYVGDEAQSKRGILTKYPIEHGI ITNWDDMEKIWHHSFYNELRVAPEEHPTLLTEAPLNPKANREKMTQIMFE TFNVPAMYVAIQAVLSLYASGRRTGMLDSGDGVTHNVPMEGYALPHAI MRLDLAGRDLTDYLMKILTERGYSFVTTAERENRDIKEKLCYVALDFEN EMATAASSSSLEKSYELPDGQVITIGNERFRCPETLFQPSFIGMESAGIH ETTYNSIMKCDIDIRKDLYANNVLSGGTTMYPGIADRMQKEITALAPSTM KIKIAPPERKYSVWIGGSILASLSTFQQMWISKQEYDEAGPSVHRKCF
<b>Molecular weight</b>	44 kDa including tags
<b>Amino acids</b>	3 to 377
<b>Tags</b>	His tag N-Terminus

Specifications

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Our [Abpromise guarantee](#) covers the use of **ab134555** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<b>Applications</b>	Mass Spectrometry SDS-PAGE
<b>Mass spectrometry</b>	MALDI-TOF
<b>Purity</b>	> 85 % SDS-PAGE.

ab134555 is purified using conventional chromatography techniques.

**Form** Liquid

## Preparation and Storage

**Stability and Storage** Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.

pH: 8.00

Constituents: 0.32% Tris HCl, 10% Glycerol, 0.88% Sodium chloride

## General Info

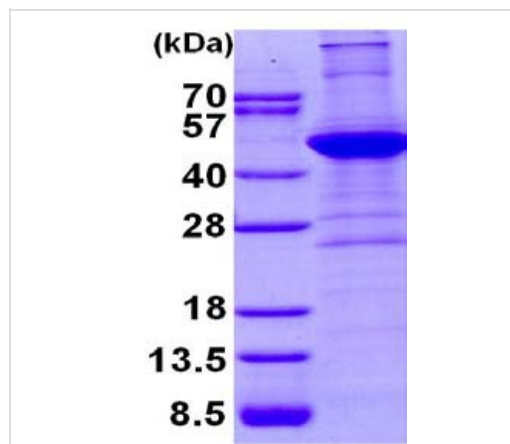
**Function** Actins are highly conserved proteins that are involved in various types of cell motility and are ubiquitously expressed in all eukaryotic cells.

**Involvement in disease** Defects in ACTA2 are the cause of aortic aneurysm familial thoracic type 6 (AAT6) [MIM:611788]. AATs are characterized by permanent dilation of the thoracic aorta usually due to degenerative changes in the aortic wall. They are primarily associated with a characteristic histologic appearance known as 'medial necrosis' or 'Erdheim cystic medial necrosis' in which there is degeneration and fragmentation of elastic fibers, loss of smooth muscle cells, and an accumulation of basophilic ground substance.

**Sequence similarities** Belongs to the actin family.

**Cellular localization** Cytoplasm > cytoskeleton.

## Images



15% SDS-PAGE analysis of 3 µg ab134555.

SDS-PAGE - alpha smooth muscle Actin protein  
(His tag) (ab134555)

**Please note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

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