

Product datasheet

Recombinant Human alpha smooth muscle Actin protein ab134555

1 Image

Overview

Product name	Recombinant Human alpha smooth muscle Actin protein
Protein length	Full length protein

Description

Nature	Recombinant
Source	Escherichia coli

Amino Acid Sequence

Accession	P62736
Species	Human
Sequence	MGSSHHHHHSSGLVPRGSHMGSHMEEEDSTALVCDNGSGLCKAGFAGDD APRAVFPSIVGRPRHQGMVGMGQKDSYVGDEAQSKRGILTKYPIEHGI ITNWDDMEKIWHHSFYNELRVAPEEHPTLLTEAPLNPKANREKMTQIMFE TFNVPAMYVAIQAVLSLYASGRRTGMLDSGDGVTHNVPMEGYALPHAI MRLDLAGRDLTDYLMKILTERGYSFVTTAERENRDIKEKLCYVALDFEN EMATAASSSSLEKSYELPDGQVITIGNERFRCPETLFQPSFIGMESAGIH ETTYNSIMKCDIDIRKDLYANNVLSGGTTMYPGIADRMQKEITALAPSTM KIKIAPPERKYSVWIGGSILASLSTFQQMWISKQEYDEAGPSVHRKCF
Molecular weight	44 kDa including tags
Amino acids	3 to 377
Tags	His tag N-Terminus

Specifications

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.

Applications	Mass Spectrometry SDS-PAGE
Mass spectrometry	MALDI-TOF
Purity	> 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

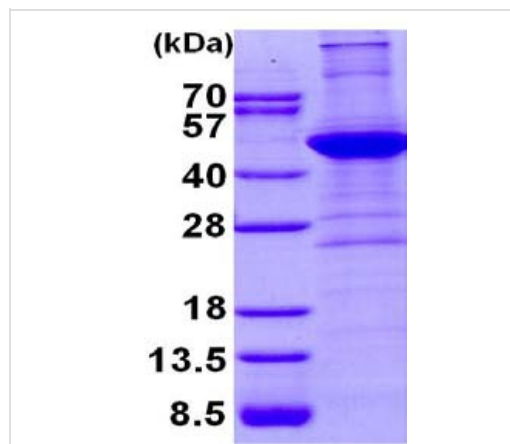
Function Actins are highly conserved proteins that are involved in various types of cell motility and are ubiquitously expressed in all eukaryotic cells.

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)

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