

Product datasheet for PH327802

alpha smooth muscle Actin (ACTA2) (NM_001141945) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	ACTA2 MS Standard C13 and N15-labeled recombinant protein (NP_001135417)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC227802
Predicted MW:	42 kDa
Protein Sequence:	>RC227802 protein sequence Red=Cloning site Green=Tags(s)

MCEEDSTALVCDNGSGLCKAGFAGDDAPRAVFPISIVGRPRHQGMVGMGQKDSYVGDEAQS KRGILT LK
YPIEHGIITNWDDMEKIWHHSFYNELRVAP EEHPTLLTEAPLNPKANREKMTQIMFETFNVPAMYVAIQ A
VLSLYASGRRTTGIVLDSGDGVTHNVPIYEGYALPHAIMRLDLAGRDLTDYLMKIL TERGYSFVTTAEREI
VRDIKEKLCYVALDFENEMATAASSSLEKSYELPDGQVITIGNERFRCPETL FQPSFIGMESAGIHETT
YNSIMKCDIDIRKDLYANNVLSGGTTMYPGIADRMQKEITALAPSTMKIKIIAPPERKYSVWIGGSILAS
LSTFQQMWISKQEYDEAGPSIVHRKCF

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<u>NP_001135417</u>
RefSeq Size:	1798
RefSeq ORF:	1131
Synonyms:	ACTSA
Locus ID:	59



[View online »](#)

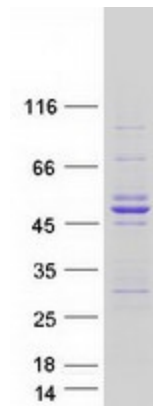
UniProt ID: [P62736](#), [D2IYH4](#)

Cytogenetics: 10q23.31

Summary: This gene encodes one of six different actin proteins. Actins are highly conserved proteins that are involved in cell motility, structure, integrity, and intercellular signaling. The encoded protein is a smooth muscle actin that is involved in vascular contractility and blood pressure homeostasis. Mutations in this gene cause a variety of vascular diseases, such as thoracic aortic disease, coronary artery disease, stroke, and Moyamoya disease, as well as multisystemic smooth muscle dysfunction syndrome. [provided by RefSeq, Sep 2017]

Protein Pathways: Vascular smooth muscle contraction

Product images:



Coomassie blue staining of purified ACTA2 protein (Cat# [TP327802]). The protein was produced from HEK293T cells transfected with ACTA2 cDNA clone (Cat# [RC227802]) using MegaTran 2.0 (Cat# [TT210002]).