

## Product datasheet for TP327802

### alpha smooth muscle Actin (ACTA2) (NM\_001141945) Human Recombinant Protein

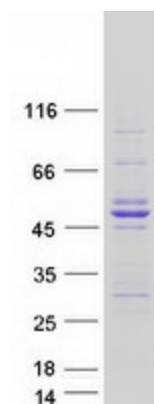
#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human actin, alpha 2, smooth muscle, aorta (ACTA2), transcript variant 1, 20 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC227802 protein sequence <span style="color: red;">Red</span> =Cloning site <span style="color: green;">Green</span> =Tags(s)  MCEEEDSTALVCDNGSGLCKAGFAGDDAPRAVFPSIVGRPRHQGVMVGMGQKDSYVGDEAQSKRGILT LK YPIEHGIITNWDDMEKIWHHSFYNELRVAPEEHPTLLTEAPLNPKANREKMTQIMFETFNVPAMYVAIQA VLSLYASGRTTGIVLDSGDGVTHNVPIYEGYALPHAIMRLDLAGRDLTDYLMKILTERGYSFVTTAEREI VRDIKEKLCYVALDFENEMATAASSSSLEKSYELPDGQVITIGNERFRCPETLFQPSFIGMESAGIHETT YNSIMKCDIDIRKDLANNVLSGGTMYPGIADRMQKEITALAPSTMKIKIAPPERKYSVWIGGSILAS LSTFQQMWISKQEYDEAGPSIVHRKCF  <span style="color: red;">TR</span> <span style="color: green;">TRPLEQKLISEEDLAANDILDYKDDDDKV</span>
Tag:	C-Myc/DDK
Predicted MW:	41.8 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Bioactivity:	Pull-down assay (PMID: <a href="https://pubmed.ncbi.nlm.nih.gov/27991922/">27991922</a> )
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.


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<b>Stability:</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>RefSeq:</b>	<a href="#">NP_001135417</a>
<b>Locus ID:</b>	59
<b>UniProt ID:</b>	<a href="#">P62736</a>
<b>RefSeq Size:</b>	1798
<b>Cytogenetics:</b>	10q23.31
<b>RefSeq ORF:</b>	1131
<b>Synonyms:</b>	ACTSA
<b>Summary:</b>	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]
<b>Protein Pathways:</b>	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]).