

Datasheet for ABIN5713682  
**MUSK Protein (AA 24-495, Cytoplasmic Domain, Cytosolic)  
 (His tag)**



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1 Image

Overview

Quantity:	100 µg
Target:	MUSK
Protein Characteristics:	AA 24-495, Cytosolic, Cytoplasmic Domain
Origin:	Human
Source:	Yeast
Protein Type:	Recombinant
Purification tag / Conjugate:	This MUSK protein is labelled with His tag.
Application:	SDS-PAGE (SDS)

Product Details

Sequence:	<p>LPKAPVITTP LETVDALVEE VATFMCAVES YPQPEISWTR NKILIKLFD T RYSIRENGQL            LTILSVEDSD DGIYCCTANN GVGGAVESCG ALQVKMKPKI TRPPINVKII EGLKAVLPCT            TMGNPKPSVS WIKGDSPLRE NSRIAVLESG SLRIHNVQKE DAGQYRCVAK NSLGTAYSKV            VKLEVEE ESE PEQDTKV FAR ILRAPESHNV TFGSFVTLHC TATGIPVPTI TWIENGNAVS            SGSIQESVKD RVIDSRLQLF ITKPGLYTCI ATNKHGEEKFS TAKAAATISI AEWREYCLAV            KELFCAKEWL VMEEKTHRGL YRSEMHL LSV PECSKLP SMH WDPTACARLP HLAFFPMTSS            KPSVDIPNLP SSSSSSFSVS PTYSMTVIIS IMSSFAIFVL LTITTL YCCR R R KQWKNKKR            ESAAVLTTL PSELLLDRLH PNP MYQR MPL LLNPKLLSLE YPRNNIEYVR DI</p>
Purification:	SDS-PAGE
Purity:	> 90 %

## Target Details

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Target:	MUSK
Alternative Name:	MUSK ( <a href="#">MUSK Products</a> )
Background:	<p>Receptor tyrosine kinase which plays a central role in the formation and the maintenance of the neuromuscular junction (NMJ), the synapse between the motor neuron and the skeletal muscle . Recruitment of AGRIN by LRP4 to the MUSK signaling complex induces phosphorylation and activation of MUSK, the kinase of the complex. The activation of MUSK in myotubes regulates the formation of NMJs through the regulation of different processes including the specific expression of genes in subsynaptic nuclei, the reorganization of the actin cytoskeleton and the clustering of the acetylcholine receptors (AChR) in the postsynaptic mbrane. May regulate AChR phosphorylation and clustering through activation of ABL1 and Src family kinases which in turn regulate MUSK. DVL1 and PAK1 that form a ternary complex with MUSK are also important for MUSK-dependent regulation of AChR clustering. May positively regulate Rho family GTPases through FNTA. Mediates the phosphorylation of FNTA which promotes prenylation, recruitment to mbranes and activation of RAC1 a regulator of the actin cytoskeleton and of gene expression. Other effectors of the MUSK signaling include DNAJA3 which functions downstream of MUSK. May also play a role within the central nervous syst by mediating cholinergic responses, synaptic plasticity and mory formation .1 Publication</p>
Molecular Weight:	54.5 kDa
UniProt:	<a href="#">015146</a>
Pathways:	<a href="#">RTK Signaling</a> , <a href="#">Regulation of Muscle Cell Differentiation</a> , <a href="#">Synaptic Membrane</a> , <a href="#">Regulation of Cell Size</a> , <a href="#">Skeletal Muscle Fiber Development</a>

## Application Details

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Application Notes:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only

## Handling

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Format:	Liquid
Concentration:	0.1-2 mg/mL
Buffer:	20 mM Tris-HCl based buffer, pH 8.0
Storage:	-80 °C,4 °C,-20 °C

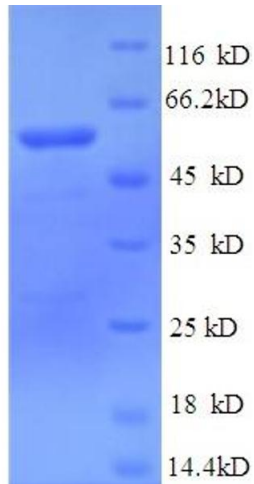
## Handling

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Storage Comment: Store at -20°C, for extended storage, conserve at -20°C or -80°C. Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

## Images

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### SDS-PAGE

Image 1.