

Muscle, skeletal receptor tyrosine-protein kinase (MUSK) Recombinant Protein | MUSK recombinant protein

Recombinant Human Muscle, skeletal receptor tyrosine-protein kinase (MUSK), partial

CATALOG # AAA18672	HOST E Coli or Yeast or Baculovirus or Mammalian Cell
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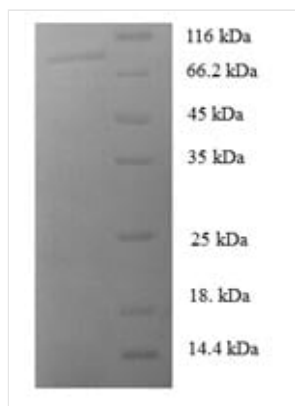
PRODUCT SYNONYMS

Muscle; skeletal receptor tyrosine-protein kinase (MUSK); Recombinant Human Muscle; partial; Muscle-specific tyrosine-protein kinase receptor; MuSK; Muscle-specific kinase receptor; MUSK recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE.
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Sequence Positions	24-495. Partial
Sequence	LPKAPVITTP LETVDALVEE VATFMCAVES YPQPEISWTR NKILIKLFD T RYSIRENGQL LTILSVEDSD DGIYCCTANN GVGGAVESCG ALQVKMKPKI TRPPINVKII EGLKAVLPCT TMGNPKPSVS WIKGDSPLRE NSRIAVLESG SLRIHNVQKE DAGQYRCVAK NSLGTAYSKV VKLEVEEESE PEQDTKV FAR ILRAPESHNV TFGSFVTLHC TATGIPVPTI TWIENGNAVS SGSIQESVKD RVIDSRLQLF ITKPGLYTCI ATNKHGEKFS TAKAAATISI AEWREYCLAV KELFCAKEWL VMEETHRGL YRSEMHLLSV PECSKLPSMH WDPTACARLP HLAAPPMTSS KPSVDIPNLP SSSSSFSVS PTYSMTVIIS IMSSFAIFVL LTITTLCC RRRKQWKNKKR ESAAVTLTTL PSELLLDRLH PNPMYQRMPL LLNPKLLSLE YPRNNIEYVR DI
Preparation and Storage	Store at -20 degree C, for extended storage, conserve at -20 degree C or -80 degree C.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for MUSK recombinant protein	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 membrane. 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 membranes 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 system by mediating cholinergic responses, synaptic plasticity and mory formation. 1 Publication
Product Categories/Family for MUSK recombinant protein	Signal Transduction

References

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NCBI AND UNIPROT INFORMATION

NCBI GI #	261878455
NCBI GeneID	4593
NCBI Accession #	NP_001159752.1
NCBI GenBank Nucleotide #	NM_001166280.1

UniProt Accession #	O15146 ; Q32MJ8 ; Q32MJ9 ; Q5VZW7 ; Q5VZW8
Molecular Weight	53.8 kDa
NCBI Official Full Name	muscle, skeletal receptor tyrosine-protein kinase isoform 2
NCBI Official Synonym Full Names	muscle, skeletal, receptor tyrosine kinase
NCBI Official Symbol	MUSK
NCBI Official Synonym Symbols	CMS9; FADS
NCBI Protein Information	muscle, skeletal receptor tyrosine-protein kinase
UniProt Protein Name	Muscle, skeletal receptor tyrosine-protein kinase
UniProt Gene Name	MUSK
UniProt Synonym Gene Names	MuSK; Muscle-specific kinase receptor
UniProt Entry Name	MUSK_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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