

Recombinant Mouse MUSK Protein, His-SUMO/MYC-tagged

Cat. No. MUSK-1288M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse MUSK Protein (22-494aa) was expressed in E. coli with N-terminal His-SUMO tag and C-terminal MYC tag.
Species	Mouse
Source	E.coli
ProteinLength	22-494 a.a.
Description	This gene encodes a member of the protein tyrosine kinase family. The encoded protein is a type 1 receptor-like protein located in muscle membrane that is activated by the heparan sulfate proteoglycan agrin released by nerve cells. The encoded protein activates signaling cascades responsible for multiple aspects of motor neuron and muscle development, including organization of the postsynaptic membrane, synaptic gene transcription, patterning of skeletal muscle, anchoring of acetylcholinesterase, and guidance of motor axons. Alternatively spliced transcript variants encoding different isoforms have been described.
Form	Tris-based buffer, 50% glycerol.
Molecular Mass	69.3 kDa
AA Sequence	EKLPKAPVITTPLETVDALVEEVATFMCAVESYPQPEISWTRNKILIKLFDTRYSI REN GQLLTILSVEDSDGGIYCCIANNGVGGAVESCGALQVKMKPKITRPPINVKIIEGLKAV LPCTTMGNPKPSVSWIKGDNALRENSRIAVLESGLRIHNVQKEDAGQYRCVAKNS

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LGTAYSKLVKLEVEVFARILRAPESHNVTFGSFVTLRCTAIGIPVPTISWIENGNAVSS
 GSIQESVKDRVIDSRLQLFITKPGLYTCIATNKHGEKFSTAKAAATVSIAEWSKSQKD
 SQGYCAQYRGEVCDAVLAKDALVFFNTSYRDPEDAQELLIHTAWNELKAVSPLCRP
 AAALLCNHLFQECSPGVVPTPMPICREYCLAVKELFCAKEWQAMEGKAHRGLYRS
 GMHLLPVPECSKLPSMHRDPTACTRLPYLDYKKENITTFPSITS

Purity Greater than 90% as determined by SDS-PAGE.

Storage The shelf life of liquid form is 6 months at -20 centigrade/-80 centigrade. The shelf life of lyophilized form is 12 months at -20 centigrade/-80 centigrade.

GENE INFORMATION

Gene Name Musk muscle, skeletal, receptor tyrosine kinase [*Mus musculus* (house mouse)]

Official Symbol [Musk](#)

Synonyms Mlk; Mdk4; Nsk1; Nsk2; Nsk3

Gene ID [18198](#)

mRNA Refseq [NM_001037127.2](#)

Protein Refseq [NP_001032204.2](#)

UniProt ID [Q61006](#)

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