

Recombinant Mouse Musk Protein, His-tagged

Cat. No. Musk-42M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human embryonic kidney cell, HEK293-derived mouse MuSK protein Glu22-Thr494, with a C-terminal 6-His tag
Species	Mouse
Source	HEK293
ProteinLength	22-494aa
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.
Tag	C-6×His
Bio-activity	Measured by its binding ability in a functional ELISA. Recombinant Mouse MuSK His-tag binds to Recombinant Mouse LRP-4 His-tag and Agrin His-tag with a ED50 of 0.0800-0.800 µg/mL.
Molecular Mass	53 kDa

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Endotoxin	< 0.1 EU/μg by LAL.
N-terminal Sequence Analysis	Glu22
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 6 months from date of receipt, -20 to -70 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after opening. 3 months, -20 to -70 centigrade under sterile conditions after opening.
Storage Buffer	Supplied as a 0.2 μm filtered solution in PBS with Trehalose.
Shipping	The product is shipped with dry ice or equivalent.
References	1. Valenzuela, D.M. et al. (1995) Neuron 15:573. 2. Finn, A.J. et al. (2003) Nat. Neurosci. 6:717. 3. Nasrin, F. et al. (2014) Sci. Rep. 4:6841.

GENE INFORMATION

Gene Name	Musk muscle, skeletal, receptor tyrosine kinase [Mus musculus (house mouse)]
Official Symbol	Musk
Synonyms	MUSK; muscle, skeletal, receptor tyrosine kinase; muscle, skeletal receptor tyrosine-protein kinase; muscle localized kinase 2; muscle-specific kinase receptor; muscle-specific protein kinase secretory isoform; muscle-specific tyrosine protein kinase receptor; muscle-specific tyrosine-protein kinase receptor; muscle, skeletal receptor tyrosine protein kinase; Mlk; Mdk4; Nsk1; Nsk2; Nsk3; MGC117677
Gene ID	18198

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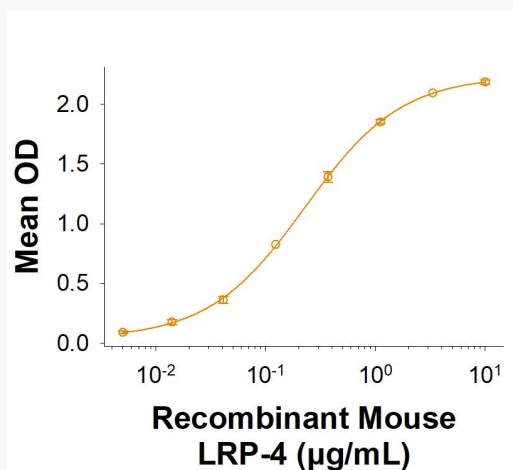
 45-1 Ramsey Road, Shirley, NY 11967, USA

mRNA Refseq NM_001037127

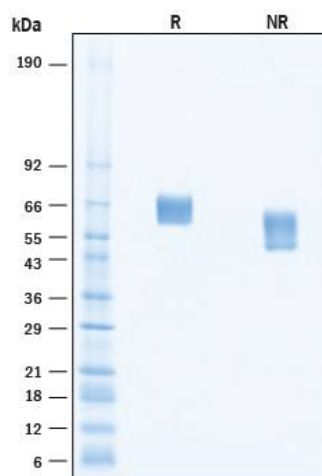
Protein Refseq NP_001032204

UniProt ID Q61006

Binding Activity



SDS-PAGE analysis of purified recombinant Human PPIA



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