Recombinant Mouse Musk Protein, mIgG2a tagged

Cat. No. Musk-45M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Musk Protein (Glu22-Thr494) with Mouse IgG2a (Glu98-Lys330) Fc tag at C-terminus was expressed in Mouse myeloma cell line.
Species	Mouse
Source	Mouse myeloma cell
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	mIgG2a
Form	Disulfide-linked homodimer
Bio-activity	Measured by its binding ability in a functional ELISA. In the presence of Recombinant Mouse Agrin, immobilized Recombinant Mouse MuSK Fc Chimera (2 μg/mL at 100 μL/well) binds Recombinant Mouse LRP-4 with an ED50 of 150-900 ng/mL

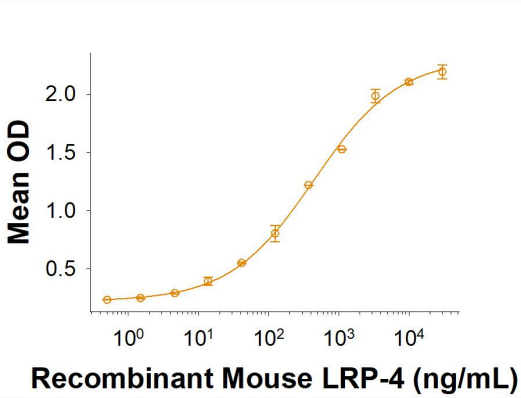
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Molecular Mass	79 kDa
Endotoxin	< 0.1 EU/μg by LAL.
Purity	> 95 %, by SDS-PAGE visualized with Silver Staining and quantitative densitometry by Coomassie® Blue Staining.
N-terminal Sequence Analysis	Glu22
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 centigrade as supplied. 2 weeks, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, -20 to -70 centigrade under sterile conditions after reconstitution.
Storage Buffer	Lyophilized from a 0.2 μm filtered solution in PBS.
Shipping	The product is shipped at ambient temperature.
Reconstitution	Reconstitute at 500 μg/mL in PBS.
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

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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
mRNA Refseq	NM_001037127
Protein Refseq	NP_001032204
UniProt ID	Q61006
Binding Activity	

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