

# Recombinant Cynomolgus MUSK Protein, Fc&Avi tagged, Biotin Labeled

**Cat. No.** MUSK-49C    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant Cynomolgus Monkey MUSK Protein (Leu24-Thr495) with Human IgG1 (Pro100-Lys330) Fc tag at C-terminus was expressed in Chinese Hamster Ovary cell line.
<b>Species</b>	Cynomolgus
<b>Source</b>	CHO
<b>ProteinLength</b>	24-495aa
<b>Description</b>	This gene encodes a muscle-specific tyrosine kinase receptor. The encoded protein may play a role in clustering of the acetylcholine receptor in the postsynaptic neuromuscular junction. Mutations in this gene have been associated with congenital myasthenic syndrome. Alternatively spliced transcript variants have been described.
<b>Tag</b>	C-Fc
<b>Conjugation/Label</b>	Biotin
<b>Form</b>	Disulfide-linked homodimer, Biotinylated via Avi-tag
<b>Bio-activity</b>	Measured by its binding ability in a functional ELISA. In the presence of Recombinant Human Agrin, immobilized Recombinant Cynomolgus Monkey MuSK Fc Chimera at 0.5 µg/mL (100 µL/well) binds Recombinant Human LRP-4 with an ED50 of 10.0-80.0

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	ng/mL.
<b>Molecular Mass</b>	78 kDa
<b>Endotoxin</b>	< 0.1 EU/μg by LAL.
<b>Purity</b>	> 95 %, by SDS-PAGE visualized with Silver Staining and quantitative densitometry by Coomassie® Blue Staining.
<b>N-terminal Sequence Analysis</b>	Leu24
<b>Storage</b>	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, -20 to -70 centigrade under sterile conditions after reconstitution.
<b>Storage Buffer</b>	Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose.
<b>Shipping</b>	The product is shipped at ambient temperature.
<b>Reconstitution</b>	Reconstitute at 500 μg/mL in PBS.
<b>References</b>	<ol style="list-style-type: none"> <li>Burden, S.J. et al. (2013) CSH Perspectives Bio. 5(5).</li> <li>Hubbard, S.R. and Gnanasambandan, K. (2013) Biochem Biophys Acta. 1834(10):2166.</li> <li>Nasrin, F. et al. (2014) Sci. Rep. 4:6841.</li> </ol>
<b>Conjugation</b>	Biotin

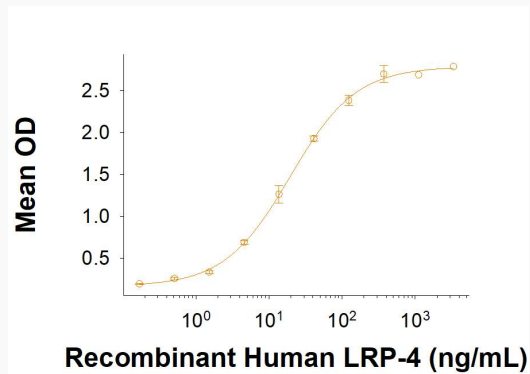
## GENE INFORMATION

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<b>Gene Name</b>	MUSK muscle associated receptor tyrosine kinase [ <i>Macaca fascicularis</i> (crab-eating macaque) ]
<b>Official Symbol</b>	MUSK
<b>Synonyms</b>	MUSK; muscle associated receptor tyrosine kinase; muscle, skeletal receptor tyrosine-protein kinase
<b>Gene ID</b>	102127677
<b>mRNA Refseq</b>	XM_005581093
<b>Protein Refseq</b>	XP_005581150
<b>UniProt ID</b>	G7PRP5

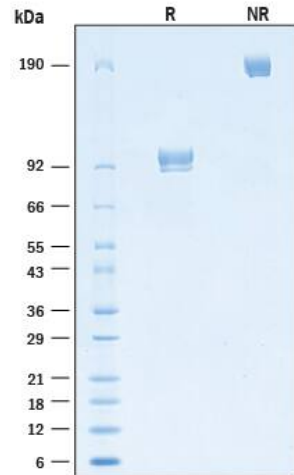
**Binding Activity**


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**SDS-PAGE analysis  
of purified  
recombinant Human  
PPIA**



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