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

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

SPECIFICATION

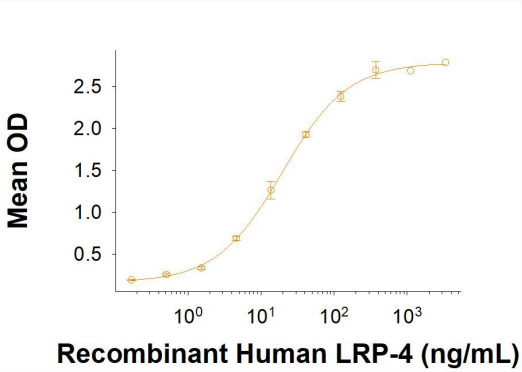
Product Overview	Recombinant Cynomolgus Monkey MUSK Protein (Leu24-Thr495) with Human IgG1 (Pro100-Lys330) Fc tag at C-terminus was expressed in Chinese Hamster Ovary cell line.
Species	Cynomolgus
Source	CHO
ProteinLength	24-495aa
Description	This gene encodes a muscle-specific tyrosine kinase receptor. 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.
Tag	C-Fc
Conjugation/Label	Biotin
Form	Disulfide-linked homodimer, Biotinylated via Avi-tag
Bio-activity	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

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

	ng/mL.
Molecular Mass	78 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	Leu24
Storage	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.
Storage Buffer	Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose.
Shipping	The product is shipped at ambient temperature.
Reconstitution	Reconstitute at 500 μg/mL in PBS.
References	1. Burden, S.J. et al. (2013) CSH Perspectives Bio. 5(5). 2. Hubbard, S.R. and Gnanasambandan, K. (2013) Biochem Biophys Acta. 1834(10):2166. 3. Nasrin, F. et al. (2014) Sci. Rep. 4:6841.
Conjugation	Biotin

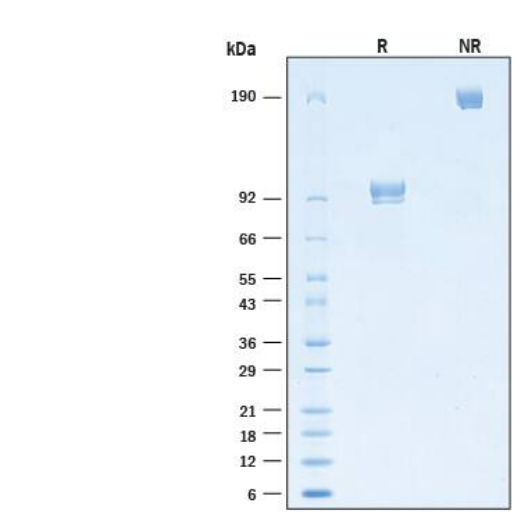
GENE INFORMATION

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

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SDS-PAGE analysis of purified recombinant Human PPIA



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