

Recombinant Human MUSK Protein, Fc tagged, Biotin Labeled

Cat. No. MUSK-43H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human MUSK Protein (Leu24-Thr495) with Human IgG1 (Pro100-Lys330) Fc tag and Avi-tag at C-terminus was expressed in Chinese Hamster Ovary cell line.
Species	Human
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. When Biotinylated Recombinant Human MuSK Fc Chimera Avi-tag is immobilized onto a Streptavidin coated plate at 2 µg/mL (100 µL/well), in the presence of Recombinant Human Agrin, it binds to Recombinant Human LRP-4 with an ED50 of 0.600-4.80 ng/mL.

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Molecular Mass	80 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 with polar packs.
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.
Conjugation	Biotin

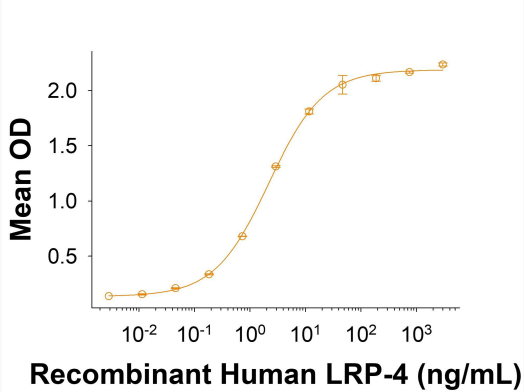
GENE INFORMATION

Gene Name	MUSK muscle, skeletal, receptor tyrosine kinase [Homo sapiens (human)]
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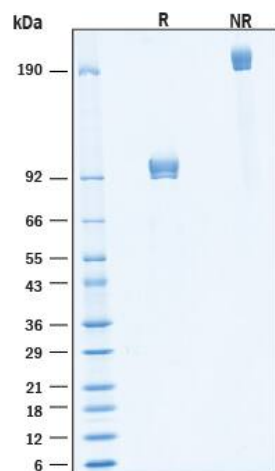
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Official Symbol	MUSK
Synonyms	MUSK; muscle, skeletal, receptor tyrosine kinase; muscle, skeletal receptor tyrosine-protein kinase; muscle-specific kinase receptor; muscle-specific tyrosine-protein kinase receptor; MGC126323; MGC126324
Gene ID	4593
mRNA Refseq	NM_001166280
Protein Refseq	NP_001159752
MIM	601296
UniProt ID	O15146
Binding Activity	

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



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