

Recombinant Human MUSK Protein, Fc tagged

Cat. No. MUSK-48H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human MUSK Protein (Leu24-Thr495) with Human IgG1 (Pro100-Lys330) Fc tag at C-terminus was expressed in Human embryonic kidney cell.
Species	Human
Source	HEK293
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
Form	Disulfide-linked homodimer
Bio-activity	Measured by its binding ability in a functional ELISA. In the presence of Recombinant Human Agrin, immobilized Recombinant Human MuSK Fc Chimera (2 µg/mL at 100 µL/well) binds Recombinant Human LRP-4 with an ED50 of 5-50 ng/mL.
Molecular Mass	78 kDa
Endotoxin	< 0.1 EU/µg by LAL.

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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.
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 [Homo sapiens (human)]
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

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Gene ID 4593

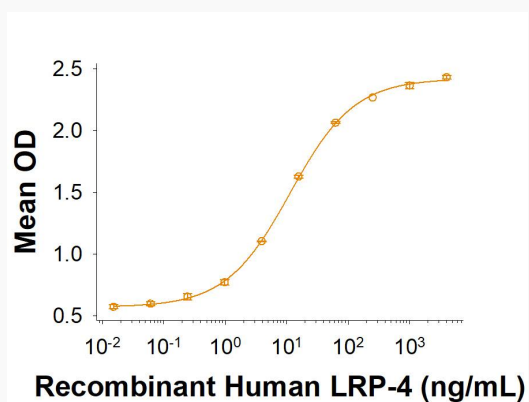
mRNA Refseq NM_001166280

Protein Refseq NP_001159752

MIM 601296

UniProt ID O15146

Binding Activity



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