

## Recombinant Human MUSK Protein, His-tagged

Cat. No. MUSK-47H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human MUSK Protein (Leu24-Thr495) with a C-terminal 6-His tag was expressed in Human embryonic kidney cell.
<b>Species</b>	Human
<b>Source</b>	HEK293
<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-6xHis
<b>Bio-activity</b>	Measured by its binding ability in a functional ELISA. Recombinant Human MuSK His-tag binds to Recombinant Human LRP-4 Protein/Recombinant Human Agrin Protein with a ED50 of 0.300-3.00 µg/mL.
<b>Molecular Mass</b>	53 kDa
<b>Endotoxin</b>	< 0.1 EU/µg by LAL.
<b>Purity</b>	> 95 %, by SDS-PAGE visualized with Silver Staining and quantitative densitometry

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	by Coomassie <sup>®</sup> 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>1. Valenzuela, D.M. et al. (1995) Neuron 15:573.</li> <li>2. Finn, A.J. et al. (2003) Nat. Neurosci. 6:717.</li> <li>3. Nasrin, F. et al. (2014) Sci. Rep. 4:6841.</li> </ol>

## GENE INFORMATION

<b>Gene Name</b>	MUSK muscle, skeletal, receptor tyrosine kinase [Homo sapiens (human)]
<b>Official Symbol</b>	MUSK
<b>Synonyms</b>	MUSK; muscle, skeletal, receptor tyrosine kinase; muscle, skeletal receptor tyrosine-protein kinase; muscle-specific kinase receptor; muscle-specific tyrosine-protein kinase receptor; MGC126323; MGC126324
<b>Gene ID</b>	4593

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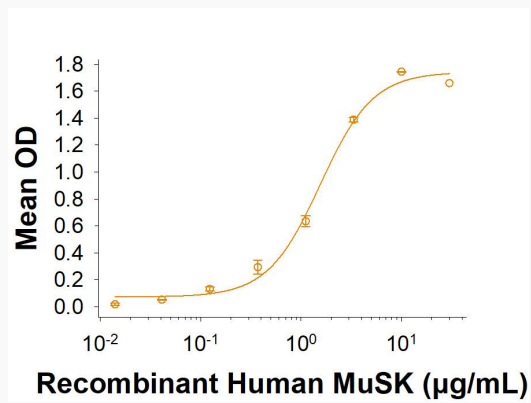
mRNA Refseq [NM\\_001166280](#)

Protein Refseq [NP\\_001159752](#)

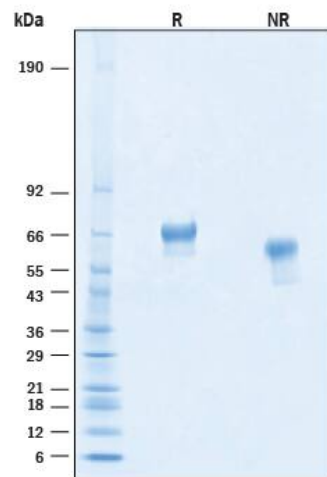
MIM [601296](#)

UniProt ID [O15146](#)

### Binding Activity



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



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