Recombinant Human MUSK Protein, His-tagged

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

SPECIFICATION

Product Overview	Recombinant Human MUSK Protein (Leu24-Thr495) with a C-terminal 6-His tag 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-6×His
Bio-activity	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.
Molecular Mass	53 kDa
Endotoxin	< 0.1 EU/μg by LAL.
Purity	> 95 %, by SDS-PAGE visualized with Silver Staining and quantitative densitometry

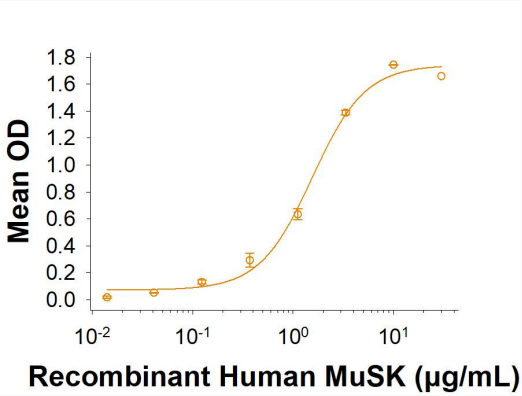
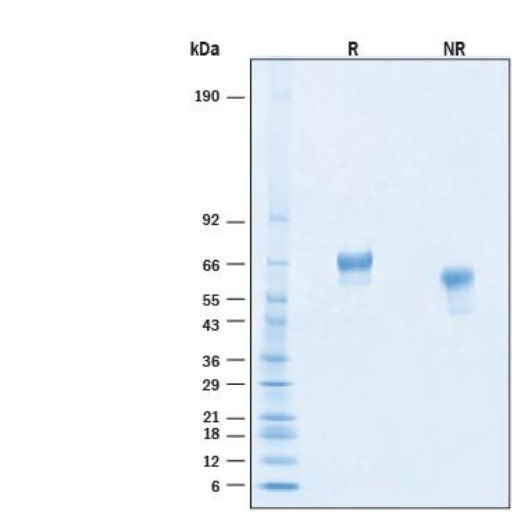
Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

	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. 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
Gene ID	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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