

Recombinant Rat Musk Protein, mIgG2a tagged

Cat. No. Musk-44R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Rat Musk Protein (Glu22-Thr494) with Mouse IgG2a (Glu98-Lys330) Fc tag at C-terminus was expressed in Mouse myeloma cell line.
Species	Rat
Source	Mouse myeloma cell
ProteinLength	22-494aa
Description	Enables protein kinase binding activity and protein tyrosine kinase activity. Involved in several processes, including positive regulation of macromolecule metabolic process; positive regulation of synaptic transmission; and sensory organ development. Located in cell projection; external side of plasma membrane; and neuromuscular junction. Human ortholog(s) of this gene implicated in congenital myasthenic syndrome 9 and fetal akinesia deformation sequence syndrome 1. Orthologous to human MUSK (muscle associated receptor tyrosine kinase).
Tag	mIgG2a
Form	Disulfide-linked homodimer
Bio-activity	Measured by its binding ability in a functional ELISA. In the presence of Recombinant Rat Agrin, immobilized Recombinant Rat MuSK Fc Chimera (2 µg/mL at 100 µL/well) binds Recombinant Human LRP-4 with an ED50 of 0.06-0.3 µg/mL.

 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

Molecular Mass	79 kDa
Endotoxin	< 0.1 EU/μg by LAL.
Purity	> 90 %, by SDS-PAGE visualized with Silver Staining and quantitative densitometry by Coomassie® Blue Staining.
N-terminal Sequence Analysis	Glu22
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 [<i>Rattus norvegicus</i> (Norway rat)]
Official Symbol	Musk

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Synonyms MUSK; muscle, skeletal, receptor tyrosine kinase; muscle, skeletal receptor tyrosine protein kinase; muscle-specific kinase receptor; muscle-specific tyrosine kinase receptor MuSK; muscle-specific tyrosine protein kinase receptor; muscle specific kinase (neural fold/somite kinase 1); Nsk1

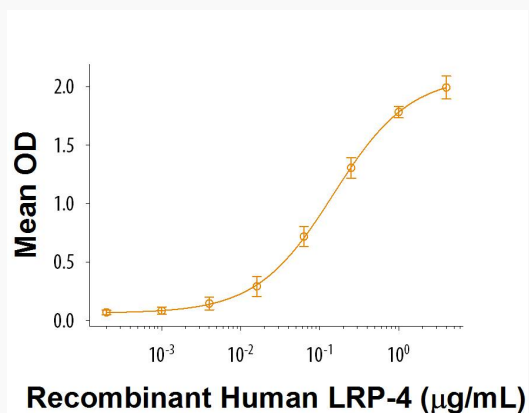
Gene ID 81725

mRNA Refseq NM_031061

Protein Refseq NP_112323

UniProt ID Q62838

Binding Activity



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