Active Recombinant Human MUSK, GST-tagged

Cat. No. MUSK-1434H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human MUSK (519-end) was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
Species	Human
Source	Sf9 Cells
ProteinLength	519 aa-end
Description	MUSK is a receptor tyrosine kinase necessary for neuromuscular junction formation. MUSK gene expression is highly regulated during neuromuscular junction and it is involved in intercellular communication present on the surface of cells that are activated by specific protein ligands. MUSK members play a key role in growth and differentiation of those cell types. Agrin signals through MUSK to cluster acetylcholine receptors on the postsynaptic membrane of the neuromuscular junction. DOK7, a MUSK-interacting cytoplasmic protein, is essential for MUSK activation in cultured myotubes. MUSK also plays a critical role in the development of normal blood vessels.
Form	Recombinant protein stored in 50mM Tris-HCl, pH 7.5, 150mM NaCl, 0.25mM DTT, 0.1mM EGTA, 0.1mM EDTA, 0.1mM PMSF, 25% glycerol.
Bio-activity	6.7 nmol/min/mg
Molecular Mass	~63 kDa

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Purity	>85%
Applications	Kinase Assay, Western Blot
Storage	Store at –70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. Avoid freeze/thaw cycles.
Concentration	0.1μg/μl

GENE INFORMATION

Gene Name	MUSK muscle, skeletal, receptor tyrosine kinase [Homo sapiens]
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
Chromosome Location	9q31.3-q32

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Function	ATP binding; PDZ domain binding; nucleotide binding; protein tyrosine kinase activity; receptor activity; transmembrane receptor protein tyrosine kinase activity;

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