

Catalog No.: RP03363LQ **Recombinant**

Species	Gene ID	Swiss Prot
Human	4593	Q15146

Synonyms
MUSK; Muscle; skeletal receptor
tyrosine-protein kinase; Muscle-specific
kinase receptor

Source	Purification
Baculovirus-Insect Cells	≥ 80 % as determined by SDS-PAGE; ≥ 80 % as determined by HPLC.

Calculated MW	Observed MW
67.9 kDa	55-70 kDa

< 1 EU/μg of the protein by LAL method.

Supplied as a 0.22 µm filtered solution in 50 mM Tris-HCl, 200 mM NaCl, 5% glycerol, 1 mM DTT. (pH 7.5). Contact us for customized product form or formulation.

Please use running water to thaw it quickly.

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MUSK (for Muscle-Specific Kinase) is a receptor tyrosine kinase required for the formation and maintenance of the neuromuscular junction. It is activated by a nerve-derived proteoglycan called agrin, which is similarly also required for neuromuscular junction formation. Upon activation by its ligand agrin, MuSK signals via the proteins called casein kinase 2 (CK2), Dok-7 and rapsyn, to induce "clustering" of acetylcholine receptors (AChR). Antibodies directed against this protein (Anti-MuSK autoantibodies) are found in some people with myasthenia gravis not demonstrating antibodies to the acetylcholine receptor. The disease still causes loss of acetylcholine receptor activity, but the symptoms affected people experience may differ from those of people with other causes of myasthenia gravis.

Recombinant Human MUSK Kinase is produced by Baculovirus-Insect Cells expression system. The target protein is expressed with sequence (Arg194-Ser712) of Human MUSK (Accession #O15146) fused with a N-His-GST tag.

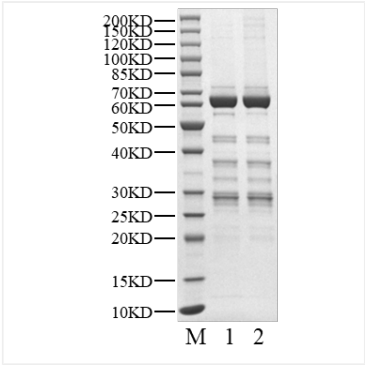
The activity of MUSK is based on the MSA technology, and the content and ratio of the substrate and the product are directly separated and detected in real time and dynamically by the different migration rates of the substrate and the product after the enzymatic reaction.

Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

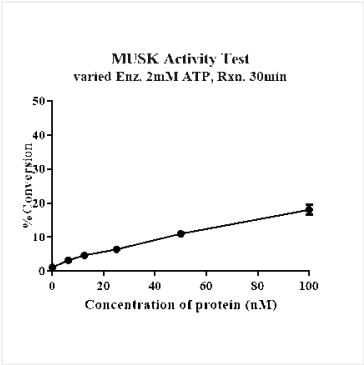
Store at -70°C. This product is stable at $\leq -70^{\circ}\text{C}$ for up to 1 year from the date of receipt. For optimal storage, aliquot into smaller quantities after centrifugation and store at recommended temperature. Aliquots below 10 μL are not advisable. Product must not be stored in diluted solutions. Avoid repeated freeze-thaw cycles. Avoid repeated freeze/thaw cycles.

For your safety and health, please wear a lab coat and disposable gloves for handling.

Validation Data



Recombinant Human MUSK Kinase was resolved with SDS-PAGE under reducing (Lane 1) and non-reducing (Lane 2) conditions.



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