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Recombinant Human MUSK Kinase

Catalog No.: RP03363LQ Recombinant

Sequence Information

Species	Gene ID	Swiss Prot
Human	4593	O15146

Tags
N-His-GST

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

Product Information

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

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

Formulation
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.

Reconstitution
Please use running water to thaw it quickly.

Contact

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Background

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.

Basic Information

Description
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.

Bio-Activity
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.

Shipping
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.

Storage
Store at -80℃
Avoid repeated freeze/thaw cycles.

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

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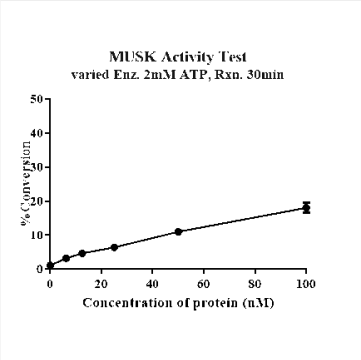
Validation Data



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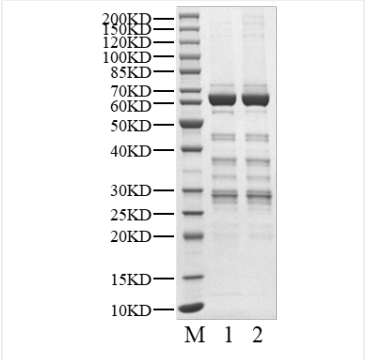

Recombinant Human MUSK Kinase was resolved with SDS-PAGE under reducing (Lane 1) and non-reducing (Lane 2) conditions.