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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

400-999-6126

cn.market@abclonal.com.cn

www.abclonal.com.cn

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
The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

Storage
Store at -70°C. This product is stable at ≤ -70°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.
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Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

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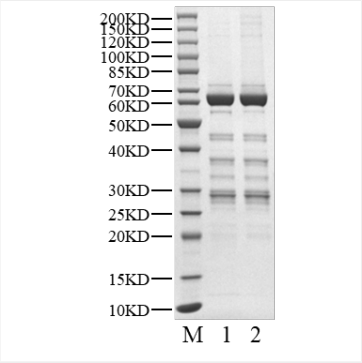
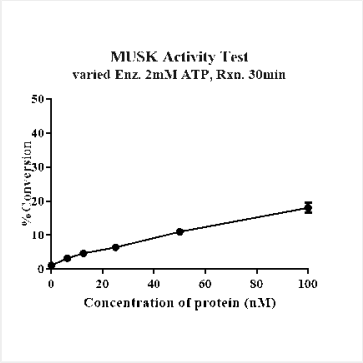
Validation Data



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



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For research use only. Not for therapeutic or diagnostic purposes.
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