

# Rat MUSK Protein; mFc Tag

## Product Information

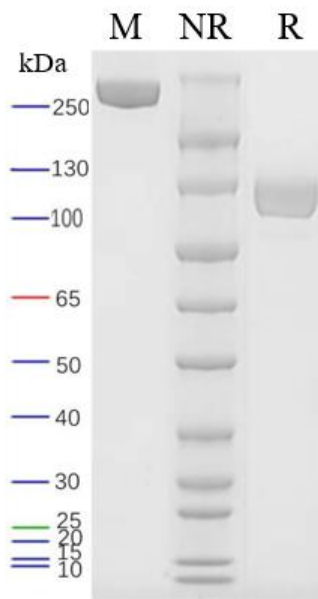
<b>Product Name</b>	Rat MUSK Protein; mFc Tag
<b>Storage temp.</b>	Store at $\leq -70^{\circ}\text{C}$ , stable for 6 months after receipt. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.
<b>Catalog# / Size</b>	<b>GM-87926RP-100 / 100 <math>\mu\text{g}</math></b> <b>GM-87926RP-1000 / 1 mg</b>

## Protein Information

<b>Alternative Names</b>	Musk,CMS9, FADS, FADS1,muscle associated receptor tyrosine kinase
<b>Source</b>	Rat MUSK Protein; mFc Tag (GM-87926RP) is expressed from human 293 cells (HEK-293). It contains AA Glu 22 – Thr 494 (Accession # Q62838). This protein carries a mFc tag at the C-terminus.
<b>Purity</b>	> 90% as determined by SDS-PAGE
<b>Endotoxin</b>	< 1 EU/ $\mu\text{g}$ , determined by LAL gel clotting assay
<b>Predicted Mol Mass</b>	77.4 KDa
<b>Formulation</b>	Supplied as a 0.2 $\mu\text{m}$ filtered solution of PBS, pH7.4.
<b>Description</b>	<p>Musk protein (Muscle-specific Kinase, MUSK) is a tyrosine kinase specifically expressed in muscle tissue, primarily involved in the development and maintenance of neuromuscular junctions. MUSK plays a key role in synapse formation by promoting the formation and stability of synapses through its interaction with nerve growth factors released by neurons.</p> <p>MUSK plays an important role in the development of neuromuscular junctions by interacting with proteins on the neuronal membrane, facilitating the clustering of receptors on the muscle cell membrane. MUSK activates various signaling pathways, regulating the functions and growth of muscle cells. MUSK also plays a crucial role in the differentiation and growth of muscle cells, influencing the muscle development process.</p> <p>Abnormalities in MUSK may be associated with certain diseases, such as myasthenia syndrome, making research on MUSK helpful for understanding related physiological and pathological mechanisms. Scientists are exploring the potential of MUSK as a therapeutic target, particularly in the treatment of neuromuscular diseases.</p>

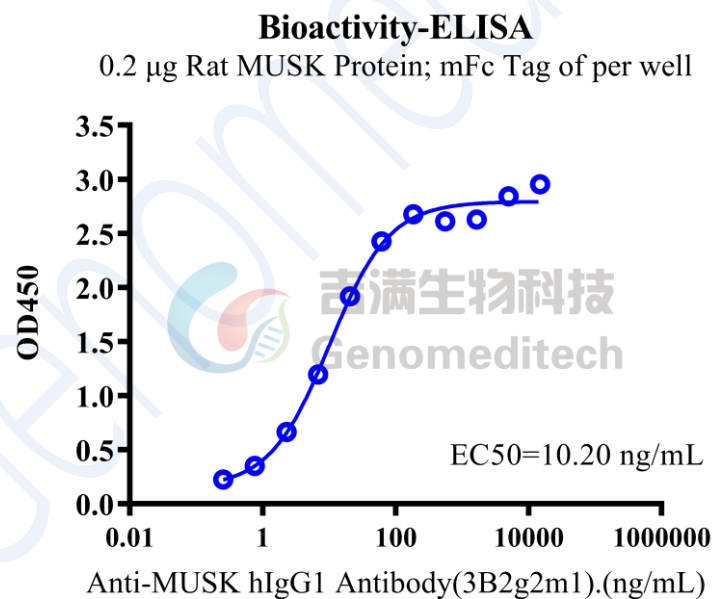
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## SDS-PAGE



On SDS-PAGE under non-reducing (NR) condition and reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 90%.

## Bioactivity-ELISA



Rat MUSK Protein; mFc Tag (Catalog # GM-87926RP) was immobilized at 2  $\mu$ g/ml (100  $\mu$ L/well). Increasing concentrations of Anti-MUSK hIgG1 Antibody(3B2g2m1) (Catalog # GM-87838AB) were added.