

Mouse MUSK Protein; His Tag

Product Information

| Product Name | Mouse MUSK Protein; His Tag |
|-----------------|---|
| Storage temp. | Store at \leq -70°C, stable for 6 months after receipt. |
| | Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles. |
| Catalog# / Size | GM-87724RP-100 / 100 µg GM-87724RP-1000 / 1 mg |

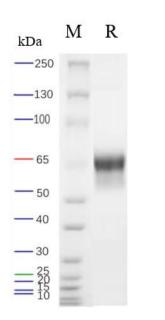
Protein Information

| Alternative Names | Musk, CMS9, FADS, FADS1, muscle associated receptor tyrosine kinase |
|--------------------|--|
| Source | Mouse MUSK Protein; His Tag (GM-87724RP) is expressed from human 293 |
| | cells (HEK-293). It contains AA Glu22-Thr494 (Accession # Q61006.1). |
| | This protein carries a His tag at the C-terminus. |
| Purity | > 95% as determined by SDS-PAGE |
| Endotoxin | < 1 EU/µg, determined by LAL gel clotting assay |
| Predicted Mol Mass | 52.7 KDa |
| Formulation | Supplied as a 0.2 µm filtered solution of PBS, pH7.4. |
| Description | 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. |
| | 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. |
| | 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. |
| | |



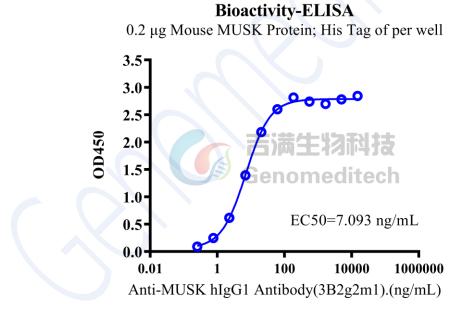
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SDS-PAGE



On SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.

Bioactivity-ELISA



Mouse MUSK Protein; His Tag (Catalog # GM-87724RP) was immobilized at 2 µg/ml (100 µL/well). Increasing concentrations of Anti-MUSK hIgG1 Antibody(3B2g2m1) (Catalog # GM-87838AB) were added.

Version:3.3