

# Human MUSK Protein; His Tag

## Product Information

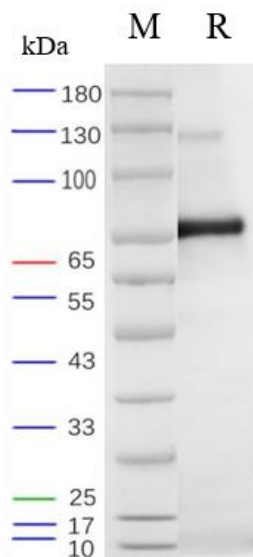
Product Name	Human MUSK Protein; His Tag
Storage temp.	Store at $\leq -70^{\circ}\text{C}$ , stable for 6 months after receipt. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.
Catalog# / Size	GM-87719RP-100 / 100 $\mu\text{g}$ GM-87719RP-1000 / 1 mg

## Protein Information

Alternative Names	Musk,CMS9, FADS, FADS1,muscle associated receptor tyrosine kinase
Source	Human MUSK Protein; His Tag (GM-87719RP) is expressed from human 293 cells (HEK-293). It contains AA Leu24-Thr495 (Accession # O15146-1). This protein carries a His tag at the C-terminus.
Purity	> 90% as determined by SDS-PAGE
Endotoxin	< 1 EU/ $\mu\text{g}$ , determined by LAL gel clotting assay
Predicted Mol Mass	52.6 KDa
Formulation	Supplied as a 0.2 $\mu\text{m}$ filtered solution of PBS, pH7.4.
Description	<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>

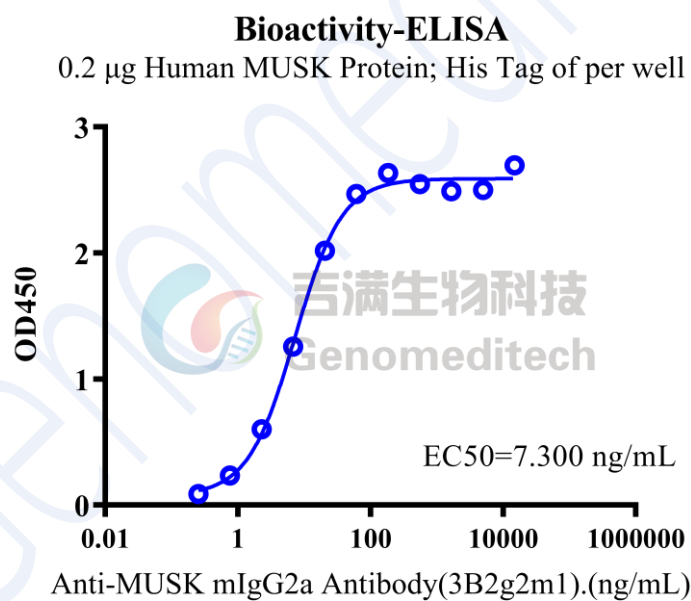
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## SDS-PAGE



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

## Bioactivity-ELISA



Human MUSK Protein; His Tag (Catalog # GM-87719RP) was immobilized at 2  $\mu$ g/ml (100  $\mu$ L/well).  
Increasing concentrations of Anti-MUSK mIgG2a Antibody(3B2g2m1) (Catalog # GM-87841AB) were added.