

Human Musk (muscle, skeletal receptor tyrosine-protein kinase) Protein

Cat. No. MUK-HM101

Description

Source	Recombinant Human Musk (muscle, skeletal receptor tyrosine-protein kinase) Protein is expressed from HEK293 with His tag at the C-terminus. It contains Leu24-Thr495.
Accession	O15146-1
Molecular Weight	The protein has a predicted MW of 53.46 kDa. Due to glycosylation, the protein migrates to 65-75 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 1EU per µg by the LAL method.
Purity	>95% as determined by Bis-Tris PAGE >95% as determined by HPLC

Formulation and Storage

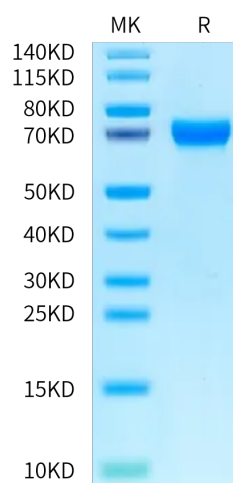
Formulation	Supplied as 0.22 µm filtered solution in PBS (pH 7.4).
Storage	Valid for 12 months from date of receipt when stored at -80°C. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Background

MuSK (muscle-specific kinase) is a receptor tyrosine kinase that plays a central signaling role in the formation of neuromuscular junctions (NMJs). MuSK is activated in a complex spatio-temporal manner to cluster acetylcholine receptors on the postsynaptic (muscle) side of the synapse and to induce differentiation of the nerve terminal on the presynaptic side.

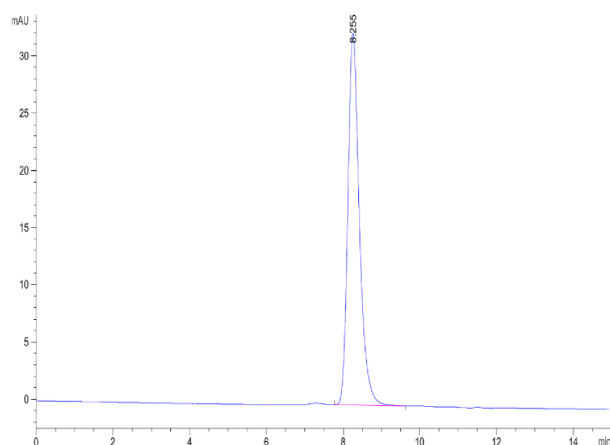
Assay Data

Bis-Tris PAGE



Human Musk (muscle, skeletal receptor tyrosine-protein kinase) on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC



The purity of Human Musk (muscle, skeletal receptor tyrosine-protein kinase) is greater than 95% as determined by SEC-HPLC.