

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

Cat. No. MUK-CM101

Description

Source	Recombinant Cynomolgus Musk (muscle, skeletal receptor tyrosine-protein kinase) Protein is expressed from HEK293 with His tag at the C-terminus. It contains Leu24-Thr495.
Accession	A0A2K5USG2
Molecular Weight	The protein has a predicted MW of 53.40 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

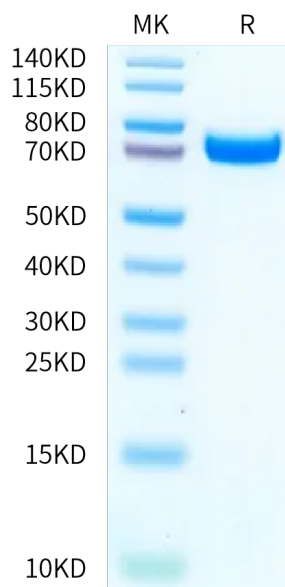
Formulation	Lyophilized from 0.22 μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 $\mu\text{g}/\text{ml}$ is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3 months after reconstitution. 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

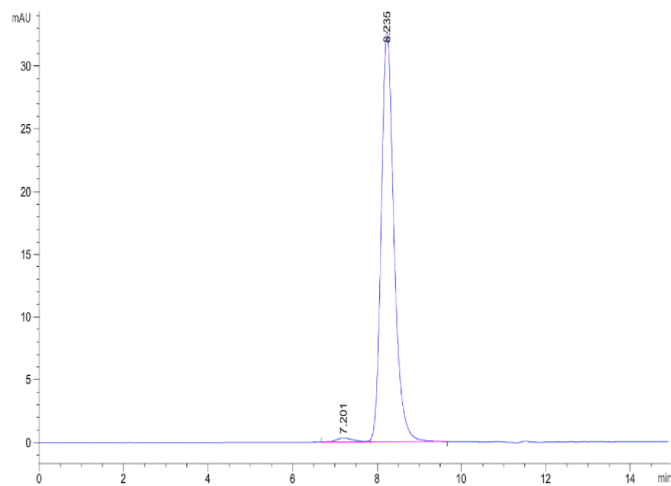
Bis-Tris PAGE



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

SEC-HPLC

Assay Data



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