

MUSK recombinant protein

MUSK, Active

CATALOG # AAA73729	HOST Sf9 insect cells	APPLICATIONS Western Blot
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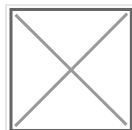
PRODUCT SYNONYMS

MUSK; Active; MGC126323; MGC126324; MUSK recombinant protein

PRODUCT SPECIFICATIONS

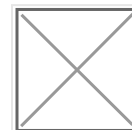
Host	Sf9 insect cells
Form/Format	Recombinant protein stored in 50mM Tris-HCl, pH7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Applicable Applications for MUSK recombinant protein	WB (Western Blot), Kinase Assay
Tag	GST
Species	Human
Dry Ice Note	The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.
Preparation and Storage	Store product at -70 degree C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.

IMAGES



SDS-PAGE

Purity: Sample Purity Data. For specific information on a given lot, see related technical data sheet.



Activity

Specific Activity: Sample Kinase Activity Plot. For specific information on a given lot, see related technical data sheet.

ADDITIONAL INFORMATION

Related Product Information for MUSK recombinant protein	Recombinant human MUSK (519-end) was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag. The gene accession number is NM_005592. MUSK is a receptor tyrosine kinase necessary for neuromuscular junction formation (1). MUSK gene expression is highly regulated during neuromuscular junction and it is involved in intercellular communication present on the surface of cells that are activated by specific protein ligands. MUSK members play a key role in growth and differentiation of those cell types. Agrin signals through MUSK to cluster acetylcholine receptors on the postsynaptic membrane of the neuromuscular junction. DOK7, a MUSK-interacting cytoplasmic protein, is essential for MUSK activation in cultured myotubes. MUSK also plays a critical role in the development of normal blood vessels (2).
Product Categories/Family for MUSK recombinant protein	Protein Kinases ; Neurobiology ; Receptor Tyrosine Kinases
References	1. Okada, K. et al: The muscle protein Dok-7 is essential for neuromuscular synaptogenesis. Science,. 2006; 312(5781):1802-5 2. Kim, C.H. et al: Regulation of MuSK expression by a novel signaling pathway.J Biol Chem. 2003;278(40):38522-7.

NCBI AND UNIPROT INFORMATION

NCBI GenBank Nucleotide #	NM_005592
Molecular Weight	~63kDa

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/musk-recombinant-protein-sf9-insect-cells-wb-western-blot-kinase-assay/73729>