Recombinant Mouse Myo5a Protein, His-tagged

Cat. No. Myo5a-1808M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Myo5a Protein (Ser1529-Val1853) with N-His tag was expressed in E. coli.
Species	Mouse
Source	E.coli
ProteinLength	Ser1529-Val1853
Description	Enables several functions, including calmodulin binding activity; disordered domain specific binding activity; and small GTPase binding activity. Involved in several processes, including cellular response to insulin stimulus; establishment of endoplasmic reticulum localization to postsynapse; and regulation of postsynaptic cytosolic calcium ion concentration. Acts upstream of or within several processes, including melanosome transport; regulation of inositol 1,4,5-trisphosphate-sensitive calcium-release channel activity; and secretion by cell. Located in several cellular components, including cytoplasmic vesicle; cytoskeleton; and photoreceptor outer segment. Part of unconventional myosin complex. Is active in glutamatergic synapse and postsynapse. Is expressed in nervous system and retina. Used to study Griscelli syndrome type 1. Human ortholog(s) of this gene implicated in Griscelli syndrome type 1. Orthologous to human MYO5A (myosin VA).
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 40.7 kDa

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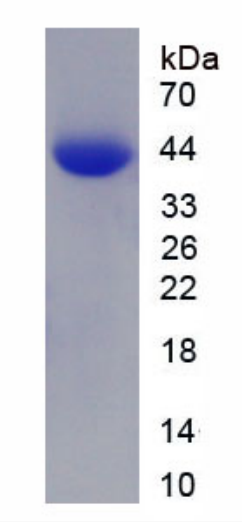
	Accurate Molecular Mass: 41 kDa
Purity	> 97%
Applications	Positive Control; Immunogen; SDS-PAGE; WB.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	Myo5a myosin VA [Mus musculus (house mouse)]
Official Symbol	Myo5a
Synonyms	MYO5A; myosin VA; unconventional myosin-Va; flailer; myosin-Va; dilute lethal-20J protein; dilute myosin heavy chain, non-muscle; d; Dbv; MVa; flr; Myo5; MyoVA; Sev-1; flail; d-120J; AI413174; AI661011; 9630007J19Rik;
Gene ID	17918

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mRNA Refseq	NM_010864
Protein Refseq	NP_034994
UniProt ID	Q99104



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