

Recombinant Rat Myo5a Protein, His-tagged

Cat. No. Myo5a-1809R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Rat Myo5a Protein (Ser1504-Val1828) with N-His tag was expressed in E. coli.
Species	Rat
Source	E.coli
ProteinLength	Ser1504-Val1828
Description	Enables several functions, including ATP binding activity; ATP-dependent protein binding activity; and syntaxin-1 binding activity. Involved in several processes, including cytoskeleton-dependent intracellular transport; positive regulation of cytochrome-c oxidase activity; and regulation of secretion by cell. Acts upstream of or within pigmentation. Located in several cellular components, including cytoplasmic vesicle; dendrite; and neuronal cell body. Part of actomyosin, myosin complex part and ribonucleoprotein complex. Is active in Schaffer collateral - CA1 synapse; glutamatergic synapse; and postsynaptic actin cytoskeleton. 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 Accurate Molecular Mass: 41 kDa

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Purity	> 90%
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 [<i>Rattus norvegicus</i> (Norway rat)]
Official Symbol	Myo5a
Synonyms	MYO5A; myosin VA; unconventional myosin-Va; myosin 5a; myosin-Va; dilute-opisthotonus; dilute myosin heavy chain, non-muscle; D; Dop; Myh12;
Gene ID	25017
mRNA Refseq	NM_022178

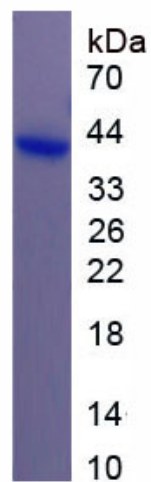
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Protein Refseq NP_071514

UniProt ID Q9QYF3



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