

Recombinant Human MYO5A protein, His & T7-tagged

Cat. No. MYO5A-8026H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human MYO5A aa. (Ser1531~Val1855 (Accession # Q9Y4I1)) fused with N-terminal His & T7 tag was produced in E. coli cells.
Species	Human
Source	E.coli
ProteinLength	Ser1531~Val1855
Description	This gene is one of three myosin V heavy-chain genes, belonging to the myosin gene superfamily. Myosin V is a class of actin-based motor proteins involved in cytoplasmic vesicle transport and anchorage, spindle-pole alignment and mRNA translocation. The protein encoded by this gene is abundant in melanocytes and nerve cells. Mutations in this gene cause Griscelli syndrome type-1 (GS1), Griscelli syndrome type-3 (GS3) and neuroectodermal melanolysosomal disease, or Elejalde disease. Multiple alternatively spliced transcript variants encoding different isoforms have been reported, but the full-length nature of some variants has not been determined.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 40.9kDa
Endotoxin	<1.0EU per 1ug (determined by the LAL method)
Purity	>95%

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Characteristic	The isoelectric point is 8.6.
Applications	SDS-PAGE; WB; ELISA; IP
Stability	The thermal stability is described by the loss rate of the target protein. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. (Referring from China Biological Products Standard, which was calculated by the Arrhenius equation.) The loss of this protein is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Storage Buffer	Supplied as lyophilized form in 20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% sarcosyl, 5% trehalose, and preservative.
Reconstitution	Reconstitute in sterile ddH ₂ O.

GENE INFORMATION

Gene Name	MYO5A myosin VA [Homo sapiens (human)]
Official Symbol	MYO5A
Synonyms	MYO5A; myosin VA; GS1; MYO5; MYH12; MYR12; unconventional myosin-Va; dilute myosin heavy chain, non-muscle; myosin V; myosin VA (heavy chain 12, myoxin); myosin, heavy polypeptide kinase; myosin-12; myosin-Va; myoxin
Gene ID	4644

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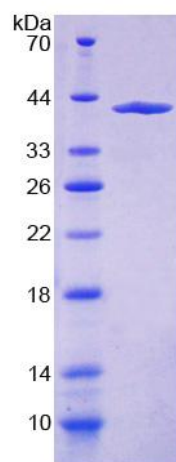
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mRNA Refseq NM_000259.3

Protein Refseq NP_000250.3

UniProt ID Q9Y4I1

SDS-PAGE



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