

## Recombinant Human MYO5A protein, His & T7-tagged

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

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human MYO5A aa. (Ser1531~Val1855 (Accession # Q9Y4I1)) fused with N-terminal His & T7 tag was produced in E. coli cells.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	Ser1531~Val1855
<b>Description</b>	<p>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 melanolyosomal 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.</p>
<b>Form</b>	Freeze-dried powder
<b>Molecular Mass</b>	Predicted Molecular Mass: 40.9kDa
<b>Endotoxin</b>	<1.0EU per 1ug (determined by the LAL method)
<b>Purity</b>	>95%

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

<b>Characteristic</b>	The isoelectric point is 8.6.
<b>Applications</b>	SDS-PAGE; WB; ELISA; IP
<b>Stability</b>	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.
<b>Storage</b>	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
<b>Storage Buffer</b>	Supplied as lyophilized form in 20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% sarcosyl, 5% trehalose, and preservative.
<b>Reconstitution</b>	Reconstitute in sterile ddH <sub>2</sub> O.

## GENE INFORMATION

<b>Gene Name</b>	MYO5A myosin VA [ Homo sapiens (human) ]
<b>Official Symbol</b>	MYO5A
<b>Synonyms</b>	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
<b>Gene ID</b>	4644

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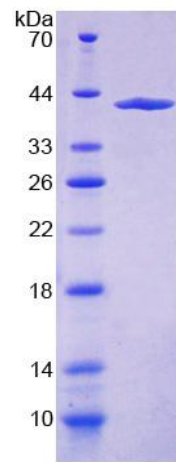
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mRNA Refseq [NM\\_000259.3](#)

Protein Refseq [NP\\_000250.3](#)

UniProt ID [Q9Y4I1](#)

**SDS-PAGE**



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