# Recombinant Human MYO1E protein, His-tagged

**Cat. No.** MYO1E-8041H **Lot. No.** (See product label)

## SPECIFICATION

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| **Product Overview** | Recombinant Human MYO1E aa. (Lys781~Pro1036 (Accession # Q12965)) fused with N-terminal His tag was produced in E. coli cells. |
| **Species** | Human |
| **Source** | E.coli |
| **ProteinLength** | Lys781~Pro1036 |
| **Description** | This gene encodes a member of the nonmuscle class I myosins which are a subgroup of the unconventional myosin protein family. The unconventional myosin proteins function as actin-based molecular motors. Class I myosins are characterized by a head (motor) domain, a regulatory domain and a either a short or long tail domain. Among the class I myosins, this protein is distinguished by a long tail domain that is involved in crosslinking actin filaments. This protein localizes to the cytoplasm and may be involved in intracellular movement and membrane trafficking. Mutations in this gene are the cause of focal segmental glomerulosclerosis-6. This gene has been referred to as myosin IC in the literature but is distinct from the myosin IC gene located on chromosome 17. |
| **Form** | Freeze-dried powder |
| **Molecular Mass** | Predicted Molecular Mass: 30.1kDa |
| **Endotoxin** | <1.0EU per 1ug (determined by the LAL method) |

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| **Purity** | >95% |
| **Characteristic** | The isoelectric point is 10. |
| **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 PBS, pH7.4, containing 5% sucrose, 0.01% sarcosyl. |
| **Reconstitution** | Reconstitute in sterile PBS, pH7.2-pH7.4. |

## GENE INFORMATION

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| **Gene Name** | MYO1E myosin IE [ Homo sapiens (human) ] |
| **Official Symbol** | MYO1E |
| **Synonyms** | MYO1E; myosin IE; FSGS6; MYO1C; HuncM-IC; unconventional myosin-Ie; MYO1E variant protein; myosin-IC; unconventional myosin 1E |
| **Gene ID** | 4643 |

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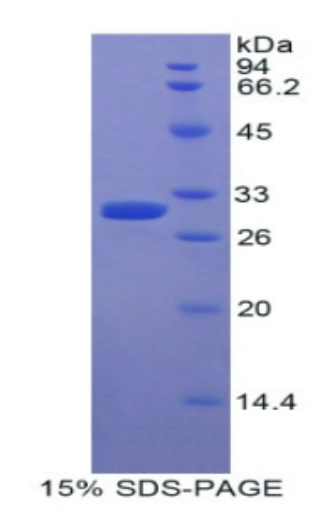
| **mRNA Refseq** | NM_004998.3 |
| **Protein Refseq** | NP_004989.2 |
| **UniProt ID** | Q12965 |
| **SDS-PAGE** |  |

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