Recombinant Human MYO7A Protein, His-tagged

Cat. No. MYO7A-2471H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human MYO7A Protein (His9-Arg191) with a N-His tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	His9-Arg191
Description	This gene is a member of the myosin gene family. Myosins are mechanochemical proteins characterized by the presence of a motor domain, an actin-binding domain, a neck domain that interacts with other proteins, and a tail domain that serves as an anchor. This gene encodes an unconventional myosin with a very short tail. Defects in this gene are associated with the mouse shaker-1 phenotype and the human Usher syndrome 1B which are characterized by deafness, reduced vestibular function, and (in human) retinal degeneration. Alternative splicing results in multiple transcript variants.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 24.5 kDa Accurate Molecular Mass: 26 kDa
Endotoxin	<1.0 EU per 1μg (determined by the LAL method).

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Purity	> 95%
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	PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in PBS or others.

GENE INFORMATION

Gene Name	MYO7A myosin VIIA [Homo sapiens (human)]
Official Symbol	MYO7A
Synonyms	MYO7A; myosin VIIA; DFNA11, DFNB2, myosin VIIA (Usher syndrome 1B (autosomal recessive, severe)), USH1B; unconventional myosin-VIIa; NSRD2; myosin-VIIa; myosin VIIA (Usher syndrome 1B (autosomal recessive, severe)); DFNB2; MYU7A; USH1B; DFNA11; MYOVIIA;
Gene ID	4647
mRNA Refseq	NM_000260

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Protein Refseq	NP_000251
MIM	276903
UniProt ID	Q13402

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