

Active Recombinant Human MYO3A, GST-tagged

Cat. No. MYO3A-90H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human MYO3alpha (1-434) was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
Species	Human
Source	Sf9 Cells
ProteinLength	1-434 a.a.
Description	MYO3alpha belongs to the myosin superfamily which are members of the large myosin superfamily and are categorized into conventional myosins (class II) and unconventional myosins (classes I and III through XV) based on their variable C-terminal cargo-binding domains. Class III myosins, such as MYO3alpha, have a kinase domain N-terminal to the conserved N-terminal motor domains and are expressed in photoreceptors. MYO3alpha plays an important role in hearing in humans and mutations in the MYO3alpha have been shown to cause nonsyndromic progressive hearing loss. MYO3alpha is highly expressed in retina and cochlea.
Form	50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Bio-activity	4 nmol/min/mg
Molecular Mass	~76 kDa

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Purity	>85% by densitometry
Applications	Kinase Assay, Western Blot
Storage	Store product at –70oC. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.
Concentration	0.1 ug/ul

GENE INFORMATION

Gene Name	MYO3A myosin IIIA [Homo sapiens]
Official Symbol	MYO3A
Synonyms	MYO3A; myosin IIIA; deafness, autosomal recessive 30 , DFNB30; myosin-IIIa; DFNB30;
Gene ID	53904
mRNA Refseq	NM_017433
Protein Refseq	NP_059129
MIM	606808
UniProt ID	Q8NEV4
Chromosome Location	10p11.1

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Function

ADP binding; ATP binding; actin binding; actin-dependent ATPase activity; calmodulin binding; microfilament motor activity; microfilament motor activity; nucleotide binding; plus-end directed microfilament motor activity; protein kinase activity; protein serine/threonine kinase activity;

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