

Recombinant Human MYO3alpha (N-GST tag)

Cat No:HR2R1776

For research use only

Overview

Quantity	10 ?g
Gene Symbol	MYO3a
Gene ID	N/A
Accession	NM_017433
Alternative Name	myosin IIIA; DFNB30
Species	Human
Source	Insect cells
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 expreesed in retina and cochlea.
Functions	The specific activity of MYO3awas determined to be 4 nmol /min/mg as per activity assay protocol.
Formulation	50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Solubility	N/A
Appearance	Liquid
Molecular Weight	76
Purity	70% - 90%
Concentration	
Shipping Condition	Dry Ice
Storage Condition	Store product at ?70?C. 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.