

Recombinant Human MYO7A Protein (838-968 aa), His-SUMO-tagged

Cat. No. MYO7A-2026H **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Recombinant Human MYO7A Protein (838-968 aa) is produced by E. coli expression system. This protein is fused with a 6xHis-SUMO tag at the N-terminal. Research Area: Signal Transduction. Protein Description: Partial.

Species

Human

Source

E.coli

ProteinLength

838-968 aa

Description

Myosins are actin-based motor molecules with ATPase activity. Unconventional myosins serve in intracellular movements. Their highly divergent tails bind to membranous compartments, which are then moved relative to actin filaments. In the retina, plays an important role in the renewal of the outer photoreceptor disks. Plays an important role in the distribution and migration of retinal pigment epithelial (RPE) melanosomes and phagosomes, and in the regulation of opsin transport in retinal photoreceptors. In the inner ear, plays an important role in differentiation, morphogenesis and organization of cochlear hair cell bundles. Involved in hair-cell vesicle trafficking of aminoglycosides, which are known to induce ototoxicity (By similarity). Motor protein that is a part of the functional network formed by USH1C, USH1G, CDH23 and MYO7A that mediates mechanotransduction in cochlear hair cells. Required for normal hearing.

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Form	Tris-based buffer,50% glycerol
Molecular Mass	31.3 kDa
AA Sequence	WAVLTVQAYARGMIARRLHQRLRAEYLWRLEAEKMLRAEEEEKLRKEMSAKKAKEEA ERKHQERLAQLAREDAERELKEKEAARRKKELLEQMERARHEPVNHSDMVDKMFG FLGTSGGLPGQEGQAPSGFE
Purity	> 90% as determined by SDS-PAGE.
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week.
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20 centigrade/-80 centigrade. The shelf life of lyophilized form is 12 months at -20 centigrade/-80 centigrade.
Concentration	A hardcopy of COA with reconstitution instruction is sent along with the products.

GENE INFORMATION

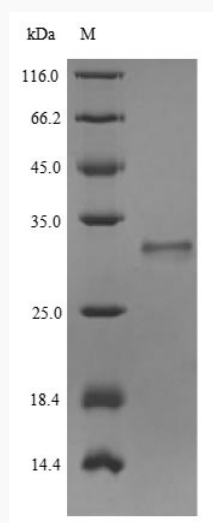
Gene Name	MYO7A myosin VIIA [Homo sapiens]
Official Symbol	MYO7A
Synonyms	MYO7A; myosin VIIA; NSRD2; myosin-VIIa; DFNB2; MYU7A; USH1B; DFNA11; MYOVIIA;
Gene ID	4647

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mRNA Refseq	NM_000260
Protein Refseq	NP_000251
MIM	276903
UniProt ID	Q13402



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

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