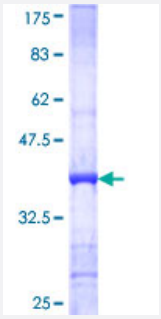
MYO7A (Human) Recombinant Protein (Q01)

Catalog # H00004647-Q01 Size 25 ug, 10 ug

Applications



Specification

Product Description	Human MYO7A partial ORF (NP_000251, 2118 a.a. - 2213 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	KQTTEPNFPEILLIAINKYGVSLIDPKTKDILTTHPFTKISNWSSGNTYFHITIGNLVRGSKLLCETSLGY KMDDLLTSYISQMLTAMSKQRGSRS
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	36.3
Interspecies Antigen Sequence	Mouse (98); Rat (97)
Preparation Method	*in vitro* wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — MYO7A

Entrez GeneID	4647
GeneBank Accession#	NM_000260
Protein Accession#	NP_000251
Gene Name	MYO7A
Gene Alias	DFNA11, DFNB2, MYOVIIA, MYU7A, NSRD2, USH1B
Gene Description	myosin VIIA
Omim ID	276900 276903 600060 601317
Gene Ontology	Hyperlink
Gene Summary	This gene is a member of the myosin gene family. Myosins are mechanochemical proteins charac terized 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 unconventi onal myosin with a very short tail. Defects in this gene are associated with the mouse shaker-1 ph enotype and the human Usher syndrome 1B which are characterized by deafness, reduced vestib ular function, and (in human) retinal degeneration. Alternative splicing results in multiple transcript variants. [provided by RefSeq
Other Designations	deafness, autosomal dominant 11|deafness, autosomal recessive 2|myosin VIIA (Usher syndrom e 1B (autosomal recessive, severe))

Disease

- Abnormalities
- Atherosclerosis

- Calcinosis
- Coronary Artery Disease
- Deafness
- Genetic Predisposition to Disease
- Hearing Disorders
- Hearing Loss
- Malignant melanoma
- Melanoma
- Retinal Diseases
- Skin Neoplasms
- Syndrome
- Usher Syndromes