

Recombinant Human MYH9, GST-tagged

Cat. No. MYH9-30H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human MYH9, fused with N-terminal GST, was expressed in E. coli.
Species	Human
Source	E.coli
Description	This gene encodes a conventional non-muscle myosin; this protein should not be confused with the unconventional myosin-9a or 9b (MYO9A or MYO9B). The encoded protein is a myosin IIA heavy chain that contains an IQ domain and a myosin head-like domain which is involved in several important functions, including cytokinesis, cell motility and maintenance of cell shape. Defects in this gene have been associated with non-syndromic sensorineural deafness autosomal dominant type 17, Epstein syndrome, Alport syndrome with macrothrombocytopenia, Sebastian syndrome, Fechtner syndrome and macrothrombocytopenia with progressive sensorineural deafness.
Form	1M PBS (58 mM Na ₂ HPO ₄ , 17 mM NaH ₂ PO ₄ , 68 mM NaCl, pH8.0), 100 mM GSH and 1% Triton X-100, 15% glycerol.
AA Sequence	EQGNTLINDRLKKANLQIDQINTDLNLSHAQKNENARQQLERQNKELKVKLQEM EGTVKSKYKASITALEAK IAQLEEQLDNETKERQAACKQVRRTEKKLKDVLLQVDDE RRNAEQYKDQADKASTRLKQLKRQLEEAEEEEAQRAN ASRRKLQRELEDATETADA MNREVSSLKNKLRRGDLPFVPRRMARKGAGDGSDEEVDGKADGAEAKPAE
Storage	Aliquot and store at -20°C to -80°C for up to 6 months. Avoid freeze thaw cycles.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Shipping Upon receipt, store it immediately at -20°C to -80°C.

GENE INFORMATION

Gene Name	MYH9 myosin, heavy chain 9, non-muscle [Homo sapiens (human)]
Official Symbol	MYH9
Synonyms	MYH9; myosin, heavy chain 9, non-muscle; DFNA17, myosin, heavy polypeptide 9, non muscle; myosin-9; EPSTS; FTNS; MHA; NMHC II A; NMMHCA; nonmuscle myosin heavy chain II A
Gene ID	4627
mRNA Refseq	NM_002473
Protein Refseq	NP_002464
MIM	160775
UniProt ID	P35579
Chromosome Location	22q13.1
Pathway	Axon guidance; Developmental Biology; EPHA-mediated growth cone collapse; Regulation of actin cytoskeleton
Function	ADP binding; contributes_to actin filament binding; contributes_to actin-dependent ATPase activity

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