

Myosin-9/MYH9 Protein, Human, Recombinant (GST)

General Information

Synonyms:	Cellular myosin heavy chain, type A;Non-muscle myosin heavy chain IIa (NMMHC II-a; NMMHC-IIA);Non-muscle myosin heavy chain A (NMMHC-A);Myosin heavy chain, non-muscle IIa;Myosin heavy chain 9;MYH9;Myosin-9
Protein Construction:	2-241 aa
Species:	Human
Expression Host:	E. coli
Accession:	P35579
Molecular Weight:	54.2 kDa (predicted)
AA Sequence:	AQQAADKYLYVDKNFINNPLAQADWAAKLVWVPSDKSGFEPASLKEEVGEEAIVELVENGKKVKVNKDDI QKMNPPKFSKVEDMAELTCLNEASVLHNLKERYYSGLIYTYSGLFCVINPYKNLPIYSEEIVEMYKGGKRHEM PPHIYAITDTAYRSMQDREDQSILCTGESGAGKTENTKKVIQYLAYVASSHKSCKDQGELERQLLQANPILE AFGNAKTVKNDNSSRFGKFIRI

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 90% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Tris-based buffer, 50% glycerol

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Cellular myosin that appears to play a role in cytokinesis, cell shape, and specialized functions such as secretion and capping. Required for cortical actin clearance prior to oocyte exocytosis. Promotes cell motility in conjunction

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with S100A4. During cell spreading, plays an important role in cytoskeleton reorganization, focal contact formation (in the margins but not the central part of spreading cells), and lamellipodial retraction; this function is mechanically antagonized by MYH10.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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