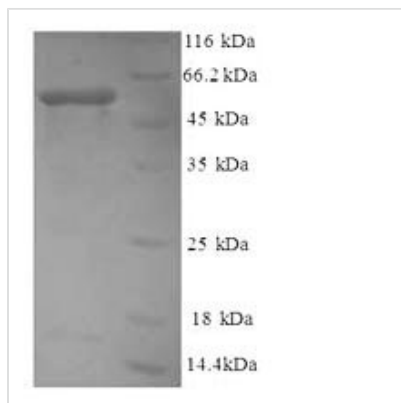




Recombinant Human Myosin-9 (MYH9), partial

Product Code	CSB-EP015303HUe0
Relevance	Cellular myosin that appears to play a role in cytokinesis, cell shape, and specialized functions such as secretion and capping. During cell spreading, plays an important role in cytoskeleton reorganization, focal contacts formation (in the margins but not the central part of spreading cells), and lamellipodial retraction; this function is mechanically antagonized by MYH10.
Abbreviation	Recombinant Human MYH9 protein, partial
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°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	P35579
Alias	Cellular myosin heavy chain, type AMyosin heavy chain 9Myosin heavy chain, non-muscle IIaNon-muscle myosin heavy chain A ;NMMHC-ANon-muscle myosin heavy chain IIa ;NMMHC II-a ;NMMHC-IIA
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	AQQAADKYLYVDKNFINNPLAQADWAAKKLVWVPSDKSGFEPASLKEEVGEE AIVELVENGKKVKVNKDDIQKMNPCKFSKVEDMAELTCLNEASVLHNLKERY SGLIYTYSGLFVVPYKNLPIYSEEIVEMYKGKKRHEMPPHIYAITDTAYRSM MQDREDQSILCTGESGAGKTENTKKVIQYLAYVASSHSKSKKDQGELERQLLQA NPILEAFGNAKTVKNDNSSRFGKFIRI
Research Area	Cell Cycle
Source	E.coli
Target Names	MYH9
Expression Region	2-241aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal GST-tagged
Mol. Weight	54.2kDa
Protein Length	Partial
Image	



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

Description

Recombinant Human Myosin-9/MYH9 produced in E.coli contains 240 amino acids covering the partial-length of MYH9 protein (2-241AA). And it has its N-terminus fused with a GST-tag and a total molecular weight of 54.2 kDa. The purity of this human MYH9 protein is greater than 90% measured by SDS-PAGE. This protein is in-stock, which means there is no waiting period for protein preparation. This recombinant MYH9 protein may find uses in the specific antibody synthesis or the studies of the cell cycle.

MYH9, also called NMM-IIA, is a myosin that exerts a vital role in cell adhesion, migration, proliferation, and differentiation. Acting as a cytokine, MYH9 executes proliferative and progressive effects in cancer by participating in cytoskeletal reorganization, cellular pseudopodia formation, and migration. Additionally, MYH9 is closely associated with the progress and poor prognosis of most solid tumors.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

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°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.