

Active Native Rabbit Myosin II Protein

Cat. No. Myh2-13R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Native rabbit full length myosin motor protein was from rabbit skeletal muscle. The full length myosin II protein has been purified with its essential light chains (ELC) and regulatory light chains (RLC).
Species	Rabbit
Source	Rabbit skeletal muscle
Description	Muscle contraction. Required for cytoskeleton organization.
Form	White lyophilized powder
Bio-activity	The biological activity of rabbit myosin II is determined from its rate of F-actin activated ATP hydrolysis. A standard biological assay for monitoring ATP hydrolysis by myosin consists of an in vitro F-actin ATPase assay. Stringent quality control ensures that in the presence of F-actin, rabbit myosin will have a minimum hydrolysis rate 10 fold greater than in the absence of F-actin and a minimum actin activated ATPase activity >300 nmol/min/mg of myosin.
Purity	Protein purity is determined by scanning densitometry of Coomassie Blue stained protein on a 4-20% gradient polyacrylamide gel. Myosin protein is 95% pure
Applications	Measurement of F-actin activated myosin ATPase activity Identification/characterization of proteins or small molecules that affect myosin II ATPase activity

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Identification/characterization of proteins or small molecules that affect the myosin II - F-actin interaction

Control myosin ATPase activity in drug discovery screening projects

Myosin II has been determined to be biologically active in an F-actin activated ATPase assay. Rabbit skeletal muscle myosin II is not recommended for use in motility assays.

Storage

The lyophilized protein is stable at 4 centigrade desiccated (<10% humidity) for 1 year.

Reconstitution

When reconstituted in nanopure water, the protein will be in the following buffer: 100 mM Imidazole pH 7.5, 2.4 M KCl, 0.2 mM DTT, 5% sucrose and 1% dextran.

Full Length

Full L.

GENE INFORMATION

Gene Name

MYH2

Official Symbol

MYH2 myosin, heavy chain 2, skeletal muscle, adult [*Oryctolagus cuniculus* (rabbit)]

Synonyms

MYH2; myosin, heavy chain 2, skeletal muscle, adult; myosin, heavy chain 2, skeletal muscle, adult; myosin, heavy polypeptide 2, skeletal muscle, adult

Gene ID

100009054

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