

Active Native Bovine Myosin Protein

Cat. No. MYH-10B **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Cardiac myosin protein has been purified from bovine heart muscle. The full length myosin protein has been purified with its essential light chains (ELC) and regulatory light chains (RLC)
Species	Bovine
Source	Bovine heart muscle
Form	Lyophilized from 100 mM Imidazole pH 7.5, 2.4 M KCl, 0.2 mM DTT, 5% sucrose and 1% dextran.
Bio-activity	The biological activity of cardiac myosin 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, which is comparable to published results. Rabbit myosin is also available for comparison studies.
Molecular Mass	The myosin heavy chain is located at approximately 200 kDa, whereas the RLC is approximately 20 kDa and the ELC isoform is approximately 25 kDa.
Purity	95%
Stability	The lyophilized protein is stable at 4 centigrade desiccated (<10% humidity) for 1 year.

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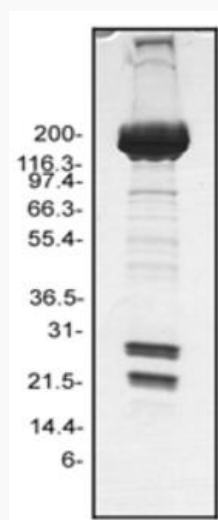
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Reconstitution Reconstituted in nanopure water.

Full Length Full L.

GENE INFORMATION

Synonyms Myosin; Cardiac myosin; Myosin light chains;



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