

MYOSIN

SPECIFICATIONS

Product Code: MW20

Purity: Predominantly heavy and light chains by SDS-PAGE.

Shipped on ice pack for next day delivery. Store at -20°C.

Protein Concentration: ≥20 mg/ml

Stability: Protein is supplied in 20 mM TES pH 7.0, 0.6 M NaCl, 50% glycerol, and is stable for at least 12 months when stored properly.

Myosin and actin are the major proteins of the contractile apparatus of muscle cells. Myosin provides, through ATP hydrolysis, the energy required for muscle contraction (Taylor, 1979). Rabbit muscle myosin is composed of 2 heavy chains (MW 200,000) and 4 light chains (MW 15,000-30,000) (Margossian, 1982).

Rabbit skeletal muscle myosin is a well-characterized protein, and the highly purified form offered by PROZYME® is suitable for use as a molecular weight standard for SDS-PAGE. Myosin is also useful for motility studies, or as a raw material for the preparation of myosin subfragments.

CHARACTERISTICS

Molecular weight: 480,000 daltons

Composition: Supplied in 20 mM TES, pH 7.0, 0.6 M NaCl, 50% glycerol

Purity: Extracted from rabbit skeletal muscle, predominantly heavy and light chains by SDS-PAGE

Subunit composition: 2 chains of approximately 200,000 daltons and 4 chains with molecular weights between 15,000 and 30,000.

Extinction coefficient: $E_{280}^{1\%} = 5.3$

Stability: 12 months

Storage: -20°C

Origin: USA

REFERENCES

Taylor, E. W. **CRC Crit. Rev. Biochem.** 6:103 (1979).

Margossian, S. S. Preparation of Myosin and its subfragments from rabbit skeletal muscle. **Meth. Enzymol.** 85:55-71 (1982).



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