

DATASHEET

Myosin II

From rabbit skeletal muscle (*m. psoas*)
(fast muscle myosin II, ~95% purity)

For Use in Research Only.
Not for Use in Diagnostic Processes.

Quantities: 1x1.0mg / 5x1.0mg / 10x1.0mg
Cat. #: 8306-01

Product Description

This native myosin II from rabbit skeletal muscle is a hexameric, actin-binding ATPase with a total molecular weight of 480kD in a head- and-tail conformation. Myosin II has two identical head domains, where the actin binding sites are localized. It consists of two heavy chains (each 220kD) and four light chains (ELC=essential and RLC= regulatory light chains). The protein concentration of myosin II was determined by Biuret and the purity by scanning densitometry from Coomassie G-250 stained SDS-Gels. Myosin II (1mg) is supplied as lyophilized powder containing 500mM KCl, 20mM Imidazole pH 7.0, 2mM DTT and 3% disaccharides, when reconstituted with 1ml H₂O.

For coated or filamentous myosin II MotorMix I (Cat. #: 5502-01) is used, whereas MotorMix II (Cat. #: 5503-01) is required for soluble myosin II.

Due to our special cryoconservation technique myosin II is highly preserved. The biological activity of myosin II was determined by ATPase with F-actin.

Product Handling

Preparation of a working stock

Example: add 1ml of ultrapure H₂O to the tube with myosin II to obtain a 1mg/ml working stock. Apply a combination of vortexing and repeated dispersing using a pipette to dissolve. Leave the protein to rehydrate for at least 10min at 4°C, vortex again until dissolved and spin at 15.000xg, 5min. For critical assays we recommend buffer exchange of the myosin II working stock against MotorMix II or another suitable buffer to remove disaccharides from cryoconservation and subsequent centrifugation at 100.000xg for 60min to remove possible aggregates.

Product Storage and Stability

Store the freeze-dried product at -70° upon arrival, where it will be stable for at least 6 months. Once dissolved, myosin II is kept on ice and will be stable for 5 days.

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