HYPERMOL
P.O. Box 201025
D-33549 Bielefeld
Germany

hypermol@hypermol.com
Fon:+49 (0)521 9876226
Fax:+49 (0)521 9876227

DATASHEET

Myosin S1

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

Quantity: 500µg
Cat. #.: 8310-01

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

Product Description

Myosin S1 (~110kD) prepared by chymotryptic cleavage of myosin II, is the myosin II motor domain, which contains the actin- and ATP-binding site. The protein concentration of myosin S1 was determined at A280nm = 0.75 and the purity by scanning densitometry from Coomassie G-250 stained SDS-Gels. Myosin S1 is supplied as lyophilized powder containing 50mM KCl, 10mM Tris pH 7.6, 0.2mM DTT, 1% disaccharides and traces of TPCK, when reconstituted with 0.5ml H_2O.

The biological activity of myosin S1 was determined after freeze-drying by measuring the ATPase activity, either in the presence of 5mM Ca^{++}, 2mM EDTA, 0.5M KCl or F-actin.

Product Handling

Preparation of a working stock

Example: add 0.5ml of H_2O to the tube with myosin S1 to obtain a 1mg/ml working stock of soluble S1. Upon reconstitution it is recommended to add 2mM DTT to the working stock to ensure that the critical SH-groups remain in a reduced state. Leave the solution to rehydrate for 2min at room temperature and vortex mildly until dissolved. For critical assays we recommend buffer exchange of the stock solution against 50mM KCl, 10mM Tris pH 7.6, 0.2mM DTT to remove disaccharides from cryoconservation and subsequent centrifugation at 16.000xg for 30min to remove possible aggregates.

Product Storage and Stability

Store the product at –70° upon arrival, where it will be stable for at least 6 months. Once dissolved, myosin S1 is kept on ice and will be active for at least 3 days.

HYPERMOL EK WARRANTS THAT ITS PRODUCT ARE CONFORM TO THE INFORMATION CONTAINED IN THIS PUBLICATION. THE PURCHASERS MUST DETERMINE THE SUITABILTY OF THE PROCUCT(S) FOR THEIR PARTICULAR USE. ADDITIONAL TERMS AND CONDITIONS MAY APPLY (SEE REVERSE SIDE OF THE INVOICE). HYPERMOL BRANDS ARE SOLD EXCLUSIVELY BY HYPERMOL EK, GERMANY AND AUTHORIZED DISTRIBUTORS.

For product inquiries please contact:
cusserv@hypermol.com
Fon: +49 (0)521 9876228
Fax: +49 (0)521 9876231
www.hypermol.com

Copyright © HYPERMOL EK