

## DATASHEET

---

### **PolyMix 6**

Actin Polymerization Buffer with ATP  
(10x stock, lyophilized)

Quantity: 1.0ml  
Cat. #: 5010-01

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

#### Product Description

PolyMix 6 is used for F-actin assays demanding a pH of 6.0. Addition of the buffer polymerizes G-actin into F-actin at pH6.0. It is further used to dilute samples containing F-actin and to preserve the buffer conditions for F-actin at this pH. In binding assays where ligands are added to F-actin, PolyMix is used to transfer the ligand into the same buffer (by column or dialysis) as essential for F-actin.

#### Product Handling

To polymerize 0.9ml of a G-actin stock solution (e.g. 1.1mg/ml, 26 $\mu$ M) add 100 $\mu$ l PolyMix 6 (10x) to the G-actin stock, and mix immediately using a pipette. This yields a 24 $\mu$ M or 1mg/ml F-actin stock solution. To dilute sample mixtures of F-actin and ligands, pre-dilute PolyMix 6 (10x) 1:10 and add to the samples. Addition of 1x PolyMix 6 to sample mixtures adjusts the buffer conditions required for F-actin.

#### Buffer Preparation and Composition

Preparation of a 10x PolyMix stock solution:

- Add 1ml of H<sub>2</sub>O to the vial with PolyMix and vortex until dissolved.  
*1ml of PolyMix (10x) contains: 1M KCl, 0.1M MES pH 6.0, 10mM ATP, 20mM MgCl<sub>2</sub>.*

Preparation of a 1x PolyMix:

- Example: add 450 $\mu$ l H<sub>2</sub>O to a new vial containing 50 $\mu$ l PolyMix and vortex.

#### Product Storage and Stability

PolyMix 6 will be stable in performance when stored at -70° upon arrival for 6 months from the date of purchase. Once dissolved, PolyMix 6 is kept on ice and should be used within 1 week. The product may be aliquoted and stored at -70°C. Avoid freeze/thaw cycles.

HYPERMOL EK WARRANTS THAT ITS PRODUCT ARE CONFORM TO THE INFORMATION CONTAINED IN THIS PUBLICATION. THE PURCHASERS MUST DETERMINE THE SUITABILITY OF THE PRODUCT(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

## Selection of Related Products

Product	Quantity	Cat. #
Actin (alpha-Actin skeletal muscle, rabbit)	4x250µg	8101-01
Actin (alpha-Actin skeletal muscle, rabbit)	1x1.0mg	8101-03
Atto488-Actin (alpha-Actin skeletal muscle, rabbit)	1x100µg	8153-01
Atto488-Actin (alpha-Actin skeletal muscle, rabbit)	5x100µg	8153-02
Pyrene-Actin 10% (alpha-Actin skeletal muscle, rabbit)	1x1.0mg	8102-01
Pyrene-Actin 100% (alpha-Actin skeletal muscle, rabbit)	1x1.0mg	8112-01
MonoMix (50x) G-actin buffer	1x1.0ml	5100-01
ME-Buffer (10x) Magnesium Exchange Buffer	2x1.0ml	5111-01
KMEI-Buffer (10x) Magnesium Exchange Buffer	2x1.0ml	5030-01

More products and further information on [www.hypermol.com](http://www.hypermol.com).  
We welcome your visit!

*For product inquiries please contact:*

cusserv@hypermol.com  
Fon: +49 (0)521 9876228  
Fax: +49 (0)521 9876231  
[www.hypermol.com](http://www.hypermol.com)