

## DATASHEET

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### **PolyMix 8**

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

Quantity: 1.0ml  
Cat. #: 5020-01

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

#### Product Description

PolyMix 8 is used for F-actin assays demanding a pH of 8.0. Addition of the buffer polymerizes G-actin into F-actin at pH8.0. 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 8 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 8 (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 8 (10x) 1:10 and add to the samples. Addition of 1x PolyMix 8 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 imidazole pH 8.0, 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 8 will be stable in performance when stored at -70° upon arrival for 6 months from the date of purchase. Once dissolved, PolyMix 8 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.

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## 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

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