

Phosphatase Inhibitor Cocktail III (2 Tubes, 100X)

Catalog No. C0004

1. Description

It is easy for the proteins to be degraded or dephosphorylated during in vitro extraction procedure, which could cause an inaccurate result of protein expression detection. Therefore, adding protease inhibitors or phosphatase inhibitors into the extracts would be an effective method to prevent degradation and dephosphorylation of protein.

The phosphatase inhibitor mixture can effectively inhibit the dephosphorylation of common phosphatases on proteins and maintain the original phosphorylation state of proteins.

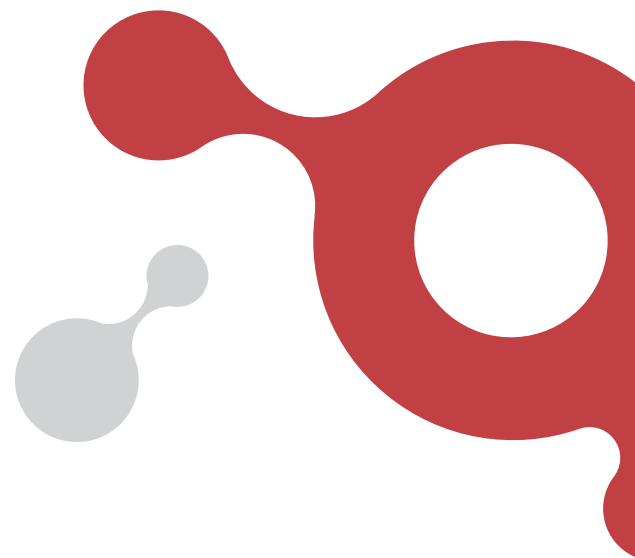
2. Experiment Protocol

- Compatible with Western Blot analysis, IP, Co-IP, pull-down, IF, IHC, kinase assay and etc.
- Add concentrated cocktail at 1:100 (v/v) dilution to samples solution (such as cell lysates or tissue extracts) before assaying.
- Briefly vortex cocktails to help facilitate the dissolution.
- Note to add tube I first, mix well, then add tube II, mix again.

3. Contents

Tube no.	Ingredient	Conc. (100X)	Target	Inhibitor Type
I (ddH₂O) 1mL	Sodium Fluoride	100 mM	Acid Phosphatase	Reversible
	Sodium Orthovanadate	100 mM	Alkaline phosphatase, PTPs, ATPases	Reversible
	Sodium Molybdate	115 mM	Acid and phosphoprotein Phosphatase	Irreversible
	Sodium Tartrate	400 mM	Acid Phosphatase	Reversible
	Imidazole	200 mM	Alkaline phosphatase	Reversible
II (DMSO) 1mL	(-)-p-Bromotetramisole oxalate	2.5 mM	Alkaline phosphatases	Irreversible
	Cantharidin	500 μM	Ser/Thr phosphatases	Reversible
	Microcystin LR	500 nM	PP1 and PP2A	Reversible





4. Properties

Form	Liquid
Formulation	Tube I In 1 ml ddH ₂ O
	Tube II In 1 ml DMSO
Storage	-20°C for 12 months
Freeze	Ok to freeze
Toxicity	Irritant

5. Notice

If Cocktail I and Cocktail II are used together, do not mix tube I with tube II beforehand, as there may be precipitation. To avoid this, please add them step by step during experiment.

6. Troubleshooting

Problem	Possible Cause	Solution
Poor inhibition of phosphatase activity	Sample contains high levels of phosphatase	Add sufficient cocktail to produce a 2X or 3X final concentration

7. Precautions and Disclaimer

This product is used for scientific research only, not for drug, household, or other uses. View our Material Safety Data Sheet (MSDS) for information regarding potential hazards and safe handling practices.





Phosphatase Inhibitor Cocktail II (100× DMSO)

Catalog No. C0003

1. Description

It is easy for the proteins to be degraded or dephosphorylated during in vitro extraction procedure, which could cause an inaccurate result of protein expression detection. Therefore, adding protease inhibitors or phosphatase inhibitors into the extracts would be an effective method to prevent degradation and dephosphorylation of protein.

The phosphatase inhibitor mixture can effectively inhibit the dephosphorylation of common phosphatases on proteins and maintain the original phosphorylation state of proteins.

2. Experiment Protocol

- Compatible with Western Blot analysis, IP, Co-IP, pull-down, IF, IHC, kinase assay and etc.
- Add concentrated cocktail at 1:100 (v/v) dilution to samples solution (such as cell lysates or tissue extracts) before assaying.
- Briefly vortex cocktails to help facilitate the dissolution.

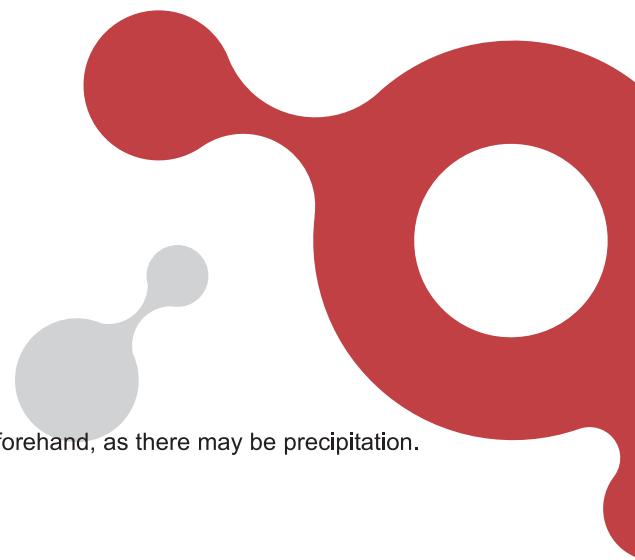
3. Contents

Ingredient	Conc. (100X)	Target	Inhibitor Type
(-)-p-Bromotetramisole oxalate	2.5 mM	Alkaline phosphatases	Irreversible
Cantharidin	500 μM	Ser/Thr phosphatases	Reversible
Microcystin LR	500 nM	PP1 and PP2A	Reversible

4. Properties

Form	Liquid
Formulation	In 1 ml DMSO
Storage	-20°C for 12 months
Freeze	Ok to freeze
Toxicity	Irritant





5. Notice

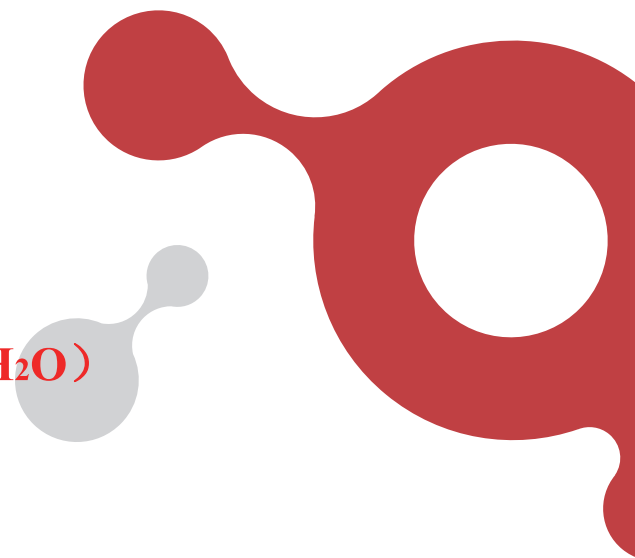
If Cocktail I and Cocktail II are used together, do not mix tube I with tube II beforehand, as there may be precipitation. To avoid this, please add them step by step during experiment.

6. Troubleshooting

Problem	Possible Cause	Solution
Poor inhibition of phosphatase activity	Sample contains high levels of phosphatase	Add sufficient cocktail to produce a 2X or 3X final concentration

7. Precautions and Disclaimer

This product is used for scientific research only, not for drug, household, or other uses. View our Material Safety Data Sheet (MSDS) for information regarding potential hazards and safe handling practices.



Phosphatase Inhibitor Cocktail I (100× ddH₂O)

Catalog No. C0002

1. Description

It is easy for the proteins to be degraded or dephosphorylated during in vitro extraction procedure, which could cause an inaccurate result of protein expression detection. Therefore, adding protease inhibitors or phosphatase inhibitors into the extracts would be an effective method to prevent degradation and dephosphorylation of protein.

The phosphatase inhibitor mixture can effectively inhibit the dephosphorylation of common phosphatases on proteins and maintain the original phosphorylation state of proteins.

2. Experiment Protocol

- Compatible with Western Blot analysis, IP, Co-IP, pull-down, IF, IHC, kinase assay and etc.
- Add concentrated cocktail at 1:100 (v/v) dilution to samples solution (such as cell lysates or tissue extracts) before assaying.
- Briefly vortex cocktails to help facilitate the dissolution.

3. Contents

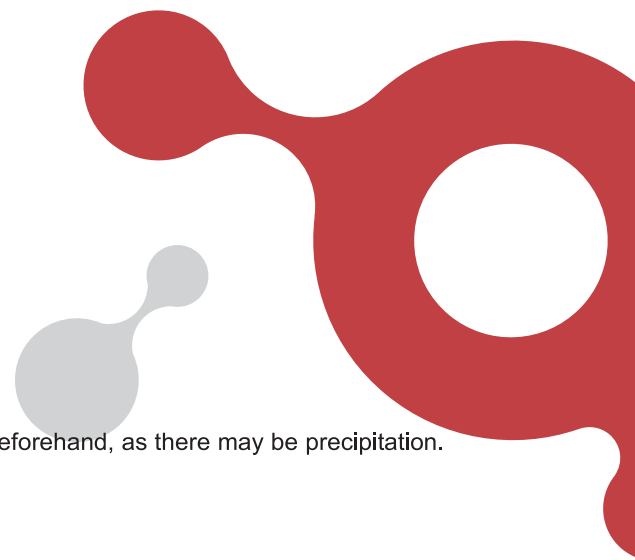
Ingredient	Conc. (100X)	Target	Inhibitor Type
Sodium Fluoride	100 mM	Acid Phosphatase	Reversible
Sodium Orthovanadate	100 mM	Alkaline phosphatase, PTPs, ATPases	Reversible
Sodium Molybdate	115 mM	Acid and phosphoprotein Phosphatase	Irreversible
Sodium Tartrate	400 mM	Acid Phosphatase	Reversible
Imidazole	200 mM	Alkaline phosphatase	Reversible

4. Properties

Form	Liquid
Formulation	In 1 ml ddH ₂ O
Storage	-20°C for 12 months
Freeze	Ok to freeze
Toxicity	Irritant

OFFICE ADDRESS: 36 WASHINGTON STREET,
WELLESLEY HILLS, MA 02481 USA
E-MAIL: SALES@TARGETMOL.COM (US)
INFO@TARGETMOL.COM
TEL: (781) 999-4286 / (781) 999-5354





5. Notice

If Cocktail I and Cocktail II are used together, do not mix tube I with tube II beforehand, as there may be precipitation. To avoid this, please add them step by step during experiment.

6. Troubleshooting

Problem	Possible Cause	Solution
Poor inhibition of phosphatase activity	Sample contains high levels of phosphatase	Add sufficient cocktail to produce a 2X or 3X final concentration

7. Precautions and Disclaimer

This product is used for scientific research only, not for drug, household, or other uses. View our Material Safety Data Sheet (MSDS) for information regarding potential hazards and safe handling practices.