

Product Information

Phosphatase Inhibitor Cocktail (2 Tubes, 100X)

I . Kit Contents

| Tube | Components | Information |
|--------------------------------|--------------------------------|---|
| A (100X in DMSO) | Cantharidin | Inhibitor of protein phosphatases 1/2A |
| | (-)-p-Bromotetramisole Oxalate | ALP inhibitor, potent and non-specific |
| | Microcystin-LR | Inhibitor of protein phosphatase PP1/PP2A, potent and selective |
| | | |
| B (100X in ddH ₂ O) | Sodium Orthovanadate | PTP inhibitor |
| | Sodium molybdate | Acid and phosphoprotein phosphatases inhibitor |
| | Sodium tartrate | Acid phosphatases inhibitor |
| | Imidazole | Alkaline phosphatases inhibitor |
| | sodium fluoride | Acid phosphatases inhibitor |

II .Introduction

Protein phosphorylation is an important covalent post-translational modification that can alter the structural conformation of a protein, which then regulates the function, location and specific binding of the target protein. Many cellular processes are regulated by the reversible phosphorylation of proteins and 30% of the proteins are likely to be phosphorylated at some point during their existence.

Endogenous proteins are produced and degraded in a balanced state, so their cellular levels are stable under stable environmental conditions. Crude cell extracts contain a number of endogenous enzymes, such as phosphatases and proteases, which are capable of degrading and modifying proteins in the extracts. The best way to increase the yield of intact proteins is to add inhibitors of those enzymes known to be present.

For Phosphorylation Protection, more inhibitors mean better results. We provide two tubes with 8 inhibitors.

Tube A (Phosphatase Inhibitor Cocktail 1, Catalog No. K1012) inhibits L-isozymes of alkaline phosphatases and serine/threonine protein phosphatases such as protein phosphatases 1 and 2A (PP1 and PP2A). Tube A contains individual components, including Cantharidin, Bromotetramisole and Microcystin LR. Tube A is supplied as a ready-to-use solution in DMSO.

Tube B (Phosphatase Inhibitor Cocktail 2, Catalog No. K1013) inhibits tyrosine protein phosphatases, acid and alkaline phosphatases. Tube B contains individual components, including Sodium orthovanadate, Sodium molybdate, Sodium tartrate, Imidazole and Sodium Fluoride. Tube B is supplied as a ready-to-use solution in ddH₂O.

III.Protocol

Thaw the tubes at room temperature or on ice, then dilute them to the samples (such as cell lysates or tissue extract) at the ratio of 1:100 (v / v) before the experiment.

Add the solution of tube A at 1:100 (v / v) and mix thoroughly, then the tube B at 1:100 (v / v) and mix it.

Don't mix A and B tubes and then join together.

You can use it in WB, Co-IP, pull-down, IF, IHC, kinase assay, and the like.

IV.Storage

Stored at -20°C, and stable for at least 12 months.

For research use only! Not to be used in humans.

Our promise

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For more details, please visit <http://www.apexbt.com/> or contact our technical team.

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