

Product Information

Phosphatase Inhibitor Cocktail 3 (100X in DMSO)

I. Kit Contents:

Components	Information
Cantharidin	Inhibitor of protein phosphatases 1/2A
(-)-p-Bromolevamisole oxalate	ALP inhibitor, potent and non-specific
Calyculin A	Protein phosphatase 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.

Phosphatase Inhibitor Cocktail 3 inhibits L-isozymes of alkaline phosphatases and serine/threonine protein phosphatases such as protein phosphatases 1 and 2A (PPI and PP2A). This phosphatase inhibitor cocktail has been optimized and tested on cell extracts from various animal tissues. Phosphatase Inhibitor Cocktail 3 can replace Phosphatase Inhibitor Cocktail 1, and the activity of the two cocktails is equivalent.

This phosphatase inhibitor cocktail contains individual components, including Cantharidin, Bromotetramisole and Calyculin A. This phosphatase inhibitor cocktail is supplied as a ready-to-use solution in DMSO.

III. Protocol:

Thaw at room temperature; add at 1:100 (v/v) dilution to solution samples (such as cell lysates or tissue extracts) before assaying.

Applications: WB, Co-IP, pull-down, IF, IHC, kinase assay and etc.

IV. Storage:

Stored at -20 °C, and stable for at least 12 months. When kept at 2-8 °C, the product remains stable for 2 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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