

Phosphatase Inhibitor Cocktail III (100× in DMSO)

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1. Description

A cocktail of three phosphatase inhibitors for the inhibition of both serine/threonine and alkaline phosphatases. Available as a 1 mL vial. Each vial contains a 1 mL solution with the following components: 500 µM Cantharidin, 2.5 mM (-)-p-Bromotetramisole oxalate, and 1 µM Calyculin A, *Discodermia calyx*.

2. Protocol

- 1 This product can be applied in Western Blot analysis, Co-IP, pull-down, IF, IHC, kinase assay and etc.
- 2 Thaw at room temperature. Before assaying, add each solution at 1:100 (v/v) dilution to samples (such as cell lysates or tissue extracts). Mix the sample sufficiently after each time of addition.

3. Components

Ingredient	Target	M.W.	100× Conc.
(-)-p-Bromotetramisole oxalate	Alkaline phosphatases	373.2	2.5 mM
Cantharidin	Ser/Thr phosphatases (PP2A)	196.2	500 µM
Calyculin A	Ser/Thr phosphatases (PP2A and PP1)	1009.2	1 µM

- Works well in common detergents such as 1% SDS, Triton, and NP-40.
- DTT, EDTA and EGTA may reduce the protection effects of Sodium Orthovanadate.

4. Storage

The product should be stored at -20°C, and is stable for up to 12 months. When kept at 2-8°C, the product remains stable for 2 months.

5. Notice

- 1 DMSO solution thaws slowly in low temperature. Recommend to warm up at 25°C.
- 2 Not all lysates contain the same levels of endogenous enzymes, and it may be necessary to adjust the volume of cocktail required.

6. Precautions and Disclaimer

This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.