

Phosphatase Inhibitor Cocktail I (100× in DMSO)

1. Description

A cocktail of three inhibitors that will inhibit alkaline phosphatases as well as serine/threonine protein phosphatases such as PP1 and PP2A. This product is provided as 1 mL vial. Each vial contains 1 mL phosphatase inhibitor cocktail solubilized in DMSO with the following components: (-)-p-Bromotetramisole oxalate (2.5 mM), Cantharidin (500 μM), and Microcystin-LR (500 nM).

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	PP2A	196.2	500 μM
Microcystin LR, <i>Microcystis aeruginosa</i>	PP1 and PP2A	995.2	500 nM

- 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.