

Phosphatase Inhibitor Cocktail II (100× in ddH₂O)

Revision Date: Dec-01-2015

1. Description

A cocktail of five phosphatase inhibitors for the inhibition of acid and alkaline phosphatases as well as protein tyrosine phosphatases (PTPs). Suitable for use with cell lysates and tissue extracts, including samples containing detergents. Provided as 1 mL vial containing the following components: Imidazole (200 mM), Sodium Fluoride (100 mM), Sodium Molybdate (115 mM), Sodium Orthovanadate (100 mM), and Sodium Tartrate Dihydrate (400 mM).

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.
Sodium Fluoride	Acid phosphatases	42.0	100 mM
Sodium Orthovanadate	Protein Tyrosine phosphatases, Alkaline phosphatases	183.9	100 mM
Sodium Tartrate Dihydrate	Acid phosphatases	230.1	400 mM
Sodium Molybdate	Acid phosphatases	205.9	115 mM
Imidazole	Alkaline phosphatases	68.1	200 mM

- 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

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.