Product Data Sheet

Product Name: Phosphatase Inhibitor Cocktail (2 Tubes, 100X)
Cat. No.: GK10010

Protocol

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.

Application Fields: Western Blot analysis, Co-IP, pull-down, IF, IHC, kinase assay and etc.

Background

Protein phosphorylation is an important covalent posttranslational modification that changes the conformation of proteins and regulates the function, location and specific binding of target proteins. Many cellular processes are regulated by reversible phosphorylation of proteins, and 30% of proteins may be phosphorylated in their presence.

Due to the balance of endogenous protein production and degradation, its cell level is stable under stable environmental conditions. The crude cell extract contains many endogenous enzymes, such as phosphatase and protease, which degrade and alter the proteins in the extract. The best way to increase complete protein production is to add inhibitors of these enzymes.

More inhibitors mean better phosphorylation protection. We offer two tubes of inhibitors with different solution forms to help you better inhibit phosphatase.

Tube A (phosatase Inhibitor Cocktail 1, inhibits l-isozyme of alkaline Phosphatase and serine/threonine protein phosphatases, such as protein Phosphatase 1 and 2A (PP1 and PP2A). Tube A contains Cantharidin, Bromotetramisole and Microcystin LR, which are provided in the solution of DMSO.

Tube B (phosatase Inhibitor Cocktail 2, inhibits tyrosine protein Phosphatase, acid Phosphatase and alkaline Phosphatase. Tube B contains Sodium orthovanadate, Sodium molybdate, Sodium tartrate, Imidazole and Sodium Fluoride, with ddH2O box solution is provided.

Caution: Product has not been fully validated for medical applications. For research use only.
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