

Product Data Sheet

Product Name: Protease Inhibitor Cocktail V (EDTA-Free, 100X in DMSO)
Cat. No.: GK10019

Protocol

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

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

Background

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 proteins in the extracts. Protein production is greatly halted and degradation is increased when proteins are extracted from cells and tissues in vitro. The best way to increase the yield of intact proteins is to add inhibitors of those enzymes known to be present.

Protease inhibitor cocktail is used in plant cell lysates or tissue extracts to increase protein stability. The cocktail functions to inhibit proteases that would degrade either non-phosphorylated or phosphorylated protein substrates.

This protease inhibitor cocktail contains individual components, including AEBSF, 1,10-Phenanthroline, Bestatin, E-64, Leupeptin and Pepstatin A with a broad specificity for cysteine, serine, aspartic, metalloproteases, and aminopeptidases. This protease inhibitor cocktail has been optimized and tested for plant cells and tissue extracts. This protease inhibitor cocktail is supplied as a ready-to-use solution in DMSO.

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

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