

## Product Information

### Protease Inhibitor Cocktail (EDTA-Free, 100X in DMSO)

#### I. Kit Contents:

Components	Information
1,10-Phenanthroline	Metalloproteases inhibitor
AEBSF	Serine protease inhibitor
Bestatin	Aminopeptidase inhibitor
E-64	Cysteine protease inhibitor, irreversible
Leupeptin	Inhibitor of serine and cysteine proteases
Pepstatin A	Aspartic proteinases inhibitor

#### II. Introduction:

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.

#### III. 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.

#### IV. Storage:

Stored at -20 °C, and stable for at least 12 months.

**For research use only! Not to be used in humans.**

#### Our promise

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For more details, please visit <http://www.apexbt.com/> or contact our technical team.

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