

## Product Information

### Protease Inhibitor Cocktail (EDTA-Free, 200X in DMSO)

#### I. Kit Contents:

Components	Information
Aprotinin	Inhibitor of bovine pancreatic trypsin
Bestatin	Aminopeptidase inhibitor
E-64	Cysteine protease inhibitor, irreversible
Leupeptin	Inhibitor of serine and cysteine proteases
Pepstatin A	Aspartic proteinases inhibitor

#### II. Introduction:

Secreted protein production is halted and degradation is increased when proteins are extracted from media in vitro. Crude cell extracts contain a number of endogenous enzymes, such as phosphatases and proteases, which are capable of degrading proteins in the extracts. 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 tissue culture media to increase protein stability. The cocktail functions to inhibit proteases that would degrade either non-phosphorylated or phosphorylated protein substrates. This cocktail should be used as a supplement to tissue culture media to prevent the degradation of secreted proteins.

This protease inhibitor cocktail contains individual components, including Aprotinin, Bestatin, E-64, Leupeptin and Pepstatin A with a broad specificity for cysteine, serine, aspartic and aminopeptidases. This protease inhibitor cocktail has been optimized and tested for tissue culture media. This protease inhibitor cocktail is supplied as a ready-to-use solution in DMSO.

#### III. Protocol:

It is suggested to dilute the cocktail appropriately for specific cell lines. The test should begin with at least 200-fold dilution because concentrations of DMSO greater than 0.5% may be deleterious for cells. Since various cell lines will differ in their sensitivity, further dilutions may be needed for this cocktail. This cocktail remains effective for up to 48 hours in the medium. After 48 hours, the medium should be replaced with fresh medium containing the cocktail.

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.

Tel: +1-(832)696-8203

Tel: +1-832-696-8203; Fax: +1-832-641-3177  
<http://www.apexbt.com/>; Email: [sales@apexbt.com](mailto:sales@apexbt.com).



Fax: +1-832-641-3177

Email: sales@apexbt.com

Tel: +1-832-696-8203; Fax: +1-832-641-3177  
<http://www.apexbt.com/>; Email: [sales@apexbt.com](mailto:sales@apexbt.com).