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## Product Data Sheet

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Product Name: Protease Inhibitor Cocktail II (EDTA-Free, 200X in DMSO)

Cat. No.: GK10016

### 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

### Background

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.

### Ingredient Summary

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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Aprotinin	Inhibitor of bovine pancreatic trypsin	9087-70-1	Proteases Serine Protease
Bestatin	Aminopeptidase inhibitor	58970-76-6	Proteases Aminopeptidase
E-64	Cysteine protease inhibitor,irrivversible	66701-25-5	Proteases Cathepsin
Leupeptin, Microbial	Inhibitor of serine and cysteine proteases	103476-89-7	Proteases Serine Protease
Pepstatin A	Aspartic proteinases inhibitor	26305-03-3	Proteases Other Proteases

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