

## Product Data Sheet

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Product Name: Protease Inhibitor Cocktail IV (EDTA-Free, 100X in DMSO)  
Cat. No.: GK10018

### Protocol

Thaw at room temperature, add at 1:100 (v/v) dilution to solution samples (such as cell lysates) 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 purification of Histidine-tagged proteins 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, Bestatin, E-64, Phosphoramidon and Pepstatin A with a broad specificity for cysteine, serine, aspartic, and thermolysin-like proteases, and aminopeptidases. This protease inhibitor cocktail has been optimized and tested for purification of histidine-tagged proteins. 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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