

# 100X Protease Inhibitor Cocktail (EDTA-Free)

Cat# A1029 – 1 ml

Storage at -20°C

## **INFORMATION**

Endogenous proteins are produced and removed in a balanced state, so their cellular levels are generally stable under stable environmental conditions. However, protein production is greatly halted and degradation is enhanced when cells are studied in vitro. To prevent the degradation of proteins under such conditions, one can utilize a cocktail of small molecule inhibitors to block the action of proteases. Generally, protease inhibitor cocktails are used in mammalian cell lysates or tissue extracts to increase protein stability. As the name indicates, the cocktail functions to inhibit proteases that would degrade either phosphorylated or non-phosphorylated protein substrates. Bimake Protease Inhibitor Cocktail (EDTA free, 100X in DMSO) is a blend of 6 pan-protease inhibitors for protection of protein integrity.

## **PRODUCT COMPONENTS**

Ingredient	100x Conc.	Target	Inhibitor Type
AEBSF	104 mM	Serine proteases	Irreversible
Aprotinin	80 μM	Serine proteases	Reversible
Bestatin	5 mM	Aminopeptidases	Reversible
E-64	1.5 mM	Cysteine proteases	Irreversible
Leupeptin	2 mM	Serine and cysteine proteases	Reversible
Pepstatin A	1.5 mM	Aspartic proteases	Reversible

## **PROTOCOL**

This product can be applied in Western Blot analysis, Co-IP, pull-down, IF, IHC, kinase assay and etc. Thaw at room temperature, add at 1:100 (v/v) dilution to solution samples (such as cell lysates or tissue extracts), before assaying. One tube is recommended for inhibition of proteases present in cell extracts of up to 20 g wet weight.

*\*DMSO solution thaws slowly in low temperature. Recommend to warm up at 25°C.*

## **PRODUCT USE LIMITATION**

These products are intended for research use only.