

Protease Inhibitor Cocktail (EDTA Free, 100X) for use with mammalian cell and tissue extracts



Cat. No. PIC008

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Description

Crude cell extracts contain a number of endogenous enzymes, such as proteases and phosphatases, 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.

This protease inhibitor cocktail has been optimized and tested for mammalian cell and tissue extracts. It contains inhibitors with a broad specificity for serine, cysteine, and acid proteases, and aminopeptidases.

Components & Properties

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AEBSF	Serine protease inhibitor
Aprotinin	Inhibitor of serine proteases and human leukocyte elastase
Bestatin	Aminopeptidase inhibitor
E-64	Cysteine protease inhibitor, irreversible
Leupeptin	Inhibitor of serine and cysteine proteases
Pepstatin A	Inhibitor of acid and aspartic proteases

Storage/Stability

Store at -20°C for 12 months.

Recommended Usage

This cocktail is supplied as a ready-to-use 100x concentrated solution in DMSO. Prior to lysing cells, dilute the cocktail 1:100 in the desired lysis buffer to obtain a 1X working concentration (for instance, 10µL will be added into a 1ml extraction solution). Working solutions containing the protease inhibitor cocktail should be prepared freshly and avoid being frozen for subsequent use.

Note: Not all lysates contain the same levels of endogenous enzymes, and it may be necessary to adjust the volume of cocktail required.

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.