

Protease Inhibitor Cocktail (EDTA-Free, 100X in DMSO) for purification of His-tagged proteins



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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 purification of His-tagged proteins. 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, irreversible
E-64	Cysteine protease inhibitor, irreversible
Bestatin	Aminopeptidase inhibitor
Pepstatin A	Inhibitor of acid and aspartic proteases
Phosphoramidon	Metalloprotease Inhibitor

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 purifying His-tagged proteins, 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.