



Directions for Use

Protease Inhibitor Cocktail 100X, General Use, EDTA-Free

Catalog Number : MG2287

Packaging Size : 4×2.0ml ☐ 5×5.0ml ☐

General Information

MesGen Biotechnology offers five different protease inhibitor cocktails as Ready-Use Reagent. These are designed to preserve protein composition of samples derived from a broad range of organisms. Protease inhibitors are essential reagents during protein extraction and purification, as there are endogenous proteases and phosphatases in crude lysates, which can compromise protein integrity and yield. MesGen Biotechnology Protease Inhibitor Cocktails contain mixtures of serine, cysteine, aspartic, metalloprotease and aminopeptidase inhibitors in concentrations that are optimized for different protein sources.

Product features

- ※ Ready-Use, premix of protease inhibitors
- ※ Reconstitute in supplied vial for convenient, 100X cocktail
- ※ Optimized formulations for use with different organisms
- ※ EDTA-free, Solvent is H₂O, without DMSO

Storage condition

Protease Inhibitor Cocktails should be stored at -20°C. Avoid multiple freeze-thaw cycles.

Protocol / Procedure

Formulation of Protease Inhibitor Cocktails

Inhibitor	Molecular Weight	Concentration	
		100X	1X
AEBSF	239.5	50 mM	0.5 mM
Aprotonin	6,512	30 μM	0.3 μM
Bestatin	308.4	1 mM	10 μM
E-64	357.4	1 mM	10 μM
Leupeptin	493.6	1 mM	10 μM



Frequently Asked Questions

What are the inhibitor specificities for the components of MesGen Biotechnology Protease Inhibitor

Cocktails? Please refer to the table below.

Name	Inhibition Specificity
AEBSF	Irreversible serine protease inhibitor of chymotrypsin, trypsin, kallikrein, plasmin and thrombin. Non-toxic alternative for PMSF.
Aprotinin	Competitive, reversible serine protease inhibitor of chymotrypsin, trypsin, kallikrein and plasmin. Does not inhibit Factor Xa or thrombin.
Bestatin	Competitive aminopeptidases inhibitor of aminopeptidase B, leucine aminopeptidase and tripeptide aminopeptidase. Does not inhibit
E-64	Irreversible cysteine protease inhibitor of papain, calpain, cathepsin B, H, L and S. Effective inhibitor of collagenase as well.
Leupeptin	Reversible cysteine and serine protease inhibitor of trypsin, plasmin, papain, kallikrein, thrombin and cathepsin A and B.

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Technical literature is available at: www.mesgenbio.com. E-mail MesGen Technical Services if you have questions on use of this system: tech@mesgenbio.com

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