

Protease Inhibitor Cocktail I (EDTA-Free, 100X in DMSO)

1. Description

TargetMol provides a wide array of customizable Protease Inhibitor Cocktails, each with varying mechanisms of actions, aimed at protecting your protein samples. They work by helping proteins avoid rapid degradation caused by endogenous proteases during the cell lysis and protein purification processes.

The Protease Inhibitor Cocktail I contains six protease inhibitors with broad specificity, aimed at facilitating the inhibition of aspartyl, cysteine, serine, as well as several aminopeptidases.

2. Experiment Protocol

- Compatible with Western Blot analysis, Co-IP, pull-down, IF, IHC, kinase assay and etc.
- Thaw in Room Temperature
- > Add concentrated cocktail at 1:100 (v/v) dilution to solution samples (such as cell lysates or tissue extracts) before assaying.
- > Briefly vortex cocktails to help facilitate the dissolution.
- > Extracts of up to 20 g wet weight

3. Contents

Ingredient	Conc. (100X)	Target	Inhibitor Type	CAS
AEBSF	104 mM	Serine proteases	Irreversible	30827-99-7
Aprotinin	80 µM	Serine proteases	Reversible	9087-70-1
Bestatin	5 mM	Aminopeptidases	Reversible	58970-76-6
E-64	1.5 mM	Cysteine Proteases	Irreversible	66701-25-5
Leupeptin	2 mM	Cysteine and Serine Proteases	Reversible	55123-66-5
Pepstatin A	1.5 mM	Aspartic Proteases	Reversible	26305-03-3

4. Properties

Form	Liquid	
Formulation	In 1 ml DMSO	
Storage	-20°C for 12 months	
Freeze	Ok to freeze	
Toxicity	Irritant	



Inhibitors, Libraries, Natural Compounds

5. Notice

- 1. Following initial thaw, aliquot and freeze (-20°C) to avoid thawing and refreezing repeatedly
- 2. Some DUB proteases (one example is ATAXIN-3) cannot be suppressed by traditional protease inhibitors, such as E-64, AEBSF, bestatin, leupeptin and Aprotinin.
 - (Reference: Neil D. Rawlings, Guy Salvesen et al. Handbook of Proteolytic Enzymes, Vol.1, 2012).

6. Troubleshooting

Problem	Possible Cause	Solution	
Poor inhibition of protease	Sample contains high levels of	Add sufficient cocktail to produce	
activity	protease	a 2X or 3X final concentration	
Cocktail does not provide	Inhibitor for that family is not a	Add individual inhibitor to the	
sufficient protection against	component of the cocktail, or the	sample for the specific protease	
a particular protease family	cocktail does not contain the	family	
	needed concentration		

7. Precautions and Disclaimer

This product is used for scientific research only, not for drug, household, or other uses. View our Material Safety Data Sheet (MSDS) for information regarding potential hazards and safe handling practices.

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