Protease Inhibitor Cocktail

Product No.: 4013
Package/Appearance: 1set (1ml+1ml)/ A: Liquid in 1ml DMSO; B: Liquid in 1ml ddH2O
Storage: store at -20℃

Description:

Protease Inhibitor Cocktail protects protein extracts from aminopeptidases, metalloproteases, and serine, cysteine, and aspartic acid proteases. It is supplied as a 100X stock solution of protease inhibitors dissolved in DMSO and a 100X stock solution of EDTA dissolved in water, pH 8.0. **Protease Inhibitor Cocktail** is a general-purpose reagent suitable for protease inhibition during protein extraction from mammalian tissues and cells, yeast and fungal cells, and bacteria.

The product set contains the chelating agent EDTA for improved protection against metalloproteases. It should therefore not be added to samples intended for subsequent analysis by techniques that are incompatible with EDTA, such as isoelectric focusing and metal affinity column separations. For these applications, use Protease Inhibitor Cocktail EDTA Free.

Applications:
WB, Co-IP, pull-down, IF, IHC, Flow Cytometry, kinase assay etc.

Procedure:
Thaw on ice, add at 1:100 (v/v) dilution to solution samples (such as cell lysates or tissue extracts) before assaying.

Each Set contains the following components:

	Inhibitor	**Concentration**	**Target Proteases**
A(100X in DMSO)	AEBSF	104 mM	Serine Proteases
	Aprotinin	80 μM	Broad Spectrum, Serine proteases
	Bestatin	5 mM	Aminopeptidase B and Leucine Aminopeptidase
	E-64	1.5 mM	Cysteine Proteases
	Leupeptin	2 mM	Cysteine Proteases and Trypsin-like Proteases
	Pepstatin A	1.5 mM	Aspartic Proteases
B(100X in ddH2O)	EDTA	0.5M	Protease

Note:
EDTA inhibits metalloproteases by chelating the divalent cations that is necessary for their activity, so the activities of other proteins may be affected by EDTA. Therefore, empirical testing may be need in particular experiments to determine if EDTA will take a bad impact. If the protein of interest is to be purified using immobilized metal chelate affinity chromatography (IMAC) or analyzed by 2D gel electrophoresis, you can use solution A only.