

**PURExtract™ Protease Inhibitor Cocktail**

Prevent proteolytic degradation during cell lysis and protein extraction

**Cat. No. PRIC02**

100X PURExtract™ Protease Inhibitor Cocktail : 1 ml x 2

2 ml of cocktail are sufficient to the inhibition of proteases present in approximately 200 ml of cell lysis buffer.

**Description**

PURExtract™ Protease Inhibitor Cocktail is especially designed for easily preventing proteolytic degradation during cell lysis and protein extraction. It can be used in extracts from almost any tissue or cell, including animals, plant, yeast, bacteria or fungi cells.

PURExtract™ Protease Inhibitor Cocktail is a ready-to-use 100X solution containing optimized concentrations of six broad-spectrum protease inhibitors stabilized in high-quality dimethylsulfoxide (DMSO). PURExtract™ Protease Inhibitor Cocktail is composed of a proprietary mix of AEBSF, Aprotinin, Bestatin, E64, Leupeptin, and Benzamide HCL which can effectively inhibit serine-proteases, cysteine-proteases, aspartic acid-proteases, metallo-proteases, aminopeptidases, trypsin and trypsin-like enzymes that are typically present in cellular lysate samples. The concentration of each component is fully disclosed, leaving no uncertainties about variables and compatibility with experiments.

PURExtract™ Protease Inhibitor Cocktail is so easy to use: simply add the appropriate volume of cocktail to the cell lysis buffer (10 µl of cocktail per 1 ml of cell lysis buffer) and continue with your procedure. Furthermore, this EDTA-free formulation is compatible with nearly any commercial or homemade detergent-based lysis reagent!

**Features**

Easily preventing proteolytic degradation during cell lysis and protein extraction.  
Simply add the cocktail to the cell lysis buffer and continue with your procedure.  
Effectively inhibit broad range of proteases typically present in cellular lysates.  
Concentration of each component is fully disclosed, leaving no uncertainties about variables.  
Compatible with nearly any commercial or homemade detergent-based lysis reagent.

**Applications**

Effectively suppressing proteolytic activity in lysates produced by a variety of methods including PURExtract™ Cell Protein Extraction Reagent, PURExtract™ Tissue Protein Extraction Reagent, other commercially formulated cell or tissue lysis products (RIPA Buffer), sonication, French press, blender homogenization or repetitive freeze/thaw cycling.

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**Formulation and concentration of PURExtract™ Protease Inhibitor Cocktail:**

Inhibitor	Protease Family targeted	Concentration
AEBSF	Serine-proteases	2.5 mg/ml
Aprotinin	Broad spectrum, serine-proteases	0.2 mg/ml
Bestatin	Aminopeptidase B, leucine aminopeptidase	0.03 mg/ml
E64	Cysteine-proteases	0.04 mg/ml
Leupeptin	Cysteine-proteases, trypsin-like proteases	0.1 mg/ml
Benzamide HCL	---	1 mg/ml

**Storage Conditions**

PURExtract™ Protease Inhibitor Cocktail should be stored at -20°C upon receipt.

**Directions for Use:**

- Briefly vortex the vial of PURExtract™ Protease Inhibitor Cocktail to ensure a homogeneous suspension of the components.
- Immediately prior to lysing cells, add 10 µl of PURExtract™ Protease Inhibitor Cocktail per milliliter of cell lysis buffer to produce a 1X final concentration. For samples containing a high level of protease activity, use a final concentration of 2-3X (20-30 µl/ml).

Note: 2 ml of cocktail are sufficient to the inhibition of proteases present in approximately 200 ml of cell lysis buffer.

Add in 10 µl of cocktail per 1 ml of cell lysis buffer.

Add in 2 ml of cocktail per 200 ml of cell lysis buffer.

**Related Products:**

PHIC02	PURExtract™ Phosphatase Inhibitor Cocktail (1 ml x 2)
PCP500	PURExtract™ Cell Protein Extraction Reagent (500 ml)
PTP500	PURExtract™ Tissue Protein Extraction Reagent (500 ml)
PPE030	PURExtract™ Protein Extraction Reagent (30 preps)
PPF050	PURExtract™ Protein Fractionation Kit (50 preps)
PECO02	PURExtract™ Phosphoprotein Enrichment Kit (2 preps)
PECO06	PURExtract™ Phosphoprotein Enrichment Kit (6 preps)
PER003	PURExtract™ Phosphoprotein Enrichment Kit (3 ml resin)
PPCO02	PURExtract™ Phosphoprotein Purification Kit (2 preps)
PPCO06	PURExtract™ Phosphoprotein Purification Kit (6 preps)
PPRO03	PURExtract™ Phosphoprotein Purification Kit (3 ml resin)
PHM020	PURExtract™ His-tagged Protein Purification Mini Kit (20 preps)
PHP005	PURExtract™ His-tagged Protein Purification Midi Kit (5 preps)

For research use only.

Not intended for any animal or human therapeutic or diagnostic use.

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PTP500	PURExtract™ Tissue Protein Extraction Reagent (500 ml)
PPE030	PURExtract™ Protein Extraction Reagent (30 preps)
PPF050	PURExtract™ Protein Fractionation Kit (50 preps)
PECO02	PURExtract™ Phosphoprotein Enrichment Kit (2 preps)
PECO06	PURExtract™ Phosphoprotein Enrichment Kit (6 preps)
PER003	PURExtract™ Phosphoprotein Enrichment Kit (3 ml resin)
PPCO02	PURExtract™ Phosphoprotein Purification Kit (2 preps)
PPCO06	PURExtract™ Phosphoprotein Purification Kit (6 preps)
PPRO03	PURExtract™ Phosphoprotein Purification Kit (3 ml resin)
PHM020	PURExtract™ His-tagged Protein Purification Mini Kit (20 preps)
PHP005	PURExtract™ His-tagged Protein Purification Midi Kit (5 preps)

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