

PURExtract™ Phosphatase Inhibitor Cocktail

Prevent dephosphorylation during cell lysis and protein extraction

Cat. No. PHIC02

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

2 ml of cocktail are sufficient to prevent dephosphorylation in approximately 200 ml of cell lysis buffer.

**Description**

PURExtract™ Phosphatase Inhibitor Cocktail is especially designed for easily preventing valuable proteins from dephosphorylation 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™ Phosphatase Inhibitor Cocktail is a ready-to-use 100X solution containing optimized concentrations of seven inhibitors of broad specificity. PURExtract™ Phosphatase Inhibitor Cocktail is composed of a proprietary mix of imidazole, tetra-sodium ethylenediaminetetraacetate, sodium orthovanadate (V), β -glycerophosphoric acid disodium salt, sodium (+) - tartrate dihydrate, sodium fluoride and disodium molybdate (VI) dihydrate which can effectively inhibit alkaline phosphatases, protein phosphatases (2A, 2B, 2C), tyrosine/serine/threonine phosphatases, acid phosphatases and phosphoprotein phosphatases that are typically present in cellular lysate samples.

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

Features

Easily preventing dephosphorylation 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 phosphatases typically present in cellular lysates.
Compatible with nearly any commercial or homemade detergent-based lysis reagent.
Compatible with popular protein assays, immunoprecipitation and kinase assays.

Applications

Effectively suppressing dephosphorylation 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.

Storage Conditions

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

Formulation and concentration of PURExtract™ Phosphatase Inhibitor Cocktail:

Inhibitor	Protease Family targeted
Imidazole	Alkaline phosphatases
Tetra-sodium ethylenediaminetetraacetate	Alkaline phosphatases, protein phosphatases (2B, 2C)
Sodium orthovanadate (V)	Alkaline phosphatases, tyrosine phosphatases
β -glycerophosphoric acid disodium salt	Serine/threonine phosphatases
Sodium (+) - tartrate dihydrate	Acid phosphatases
Sodium fluoride	Acid phosphatases, protein phosphatases (2A, 2B, 2C)
Disodium molybdate (VI) dihydrate	Acid phosphatases, phosphoprotein phosphatases

Directions for Use:

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

Note: 2 ml of cocktail are sufficient to prevent dephosphorylation in approximately 200 ml of cell lysis buffer.

Add in 10 μ l of cocktail per 1 ml of cell lysis buffer.
Add in 2 ml of cocktail per 200 ml of cell lysis buffer.

Related Products:

PRIC02	PURExtract™ Protease 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)
PCPO02	PURExtract™ Phosphoprotein Purification Kit (2 preps)
PCPO06	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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For research use only.

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

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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)
PCPO02	PURExtract™ Phosphoprotein Purification Kit (2 preps)
PCPO06	PURExtract™ Phosphoprotein Purification Kit (6 preps)
PPRO03	PURExtract™ Phosphoprotein Purification Kit (3 ml resin)
PHM020	PURExtract™ His-tagged Protein Purification Mini Kit (20 preps)
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