INSTRUCTIONS

HaltTM Phosphatase Inhibitor Cocktail

78420	78426	78427	1754.5
Number	Description		
78420	Halt Phosphatase Inhibitor Cocktail (100X), 1mL, sufficient reagent for up to 100mL of extract		
78426	Halt Ph	osphatase Inhibitor C	Cocktail (100X), 5×1 mL, sufficient reagent for up to 500mL of extract

Storage: Upon receipt store product at 4°C. Product is shipped with an ice pack. Do not freeze product.

Halt Phosphatase Inhibitor Cocktail (100X), 10mL, sufficient reagent for up to 1L of extract

Introduction

78427

The Thermo Scientific Halt Phosphatase Inhibitor Cocktail protects phosphoproteins from serine/threonine phosphatases as well as protein tyrosine phosphatases (PTPs). The cocktail contains a mixture of four inhibitors of broad specificity, including sodium fluoride, sodium orthovanadate, sodium pyrophosphate and β -glycerophosphate. Conveniently packaged in a 100X format, the cocktail is stable at 4°C and is suitable for use with any cell or tissue extract. The cocktail preserves protein phosphorylation in immunoprecipitation and kinase assays. Furthermore, the cocktail is compatible with popular protein assays such as the Thermo Scientific Pierce BCA Protein Assay Kit (Product No. 23225) and Coomassie Plus (The Better Bradford) Assay Kit (Product No. 23236).

Important Product Information

- The Halt Phosphatase Inhibitor Cocktail does not contain protease inhibitors. If necessary, use a broad-spectrum protease inhibitor, such as the Halt Protease Inhibitor Cocktail (Product No. 87785, 87786), in addition to the phosphatase inhibitor cocktail. Alternatively, use the combined Halt Protease and Phosphatase Inhibitor Cocktails (e.g., Product No. 78440 or 78441).
- The Halt Phosphatase Inhibitor Cocktail interferes with 2D gel electrophoresis. The cocktail also interferes with some . types of immobilized metal chelate affinity chromatography methods but is compatible with Thermo Scientific Pierce Phosphoprotein Enrichment Kit (Product No. 90003). Either dialyze or desalt (see the Related Thermo Scientific Products Section) sample to effectively remove inhibitors from cell extracts before performing incompatible procedures.
- The Halt Phosphatase Inhibitor Cocktail is supplied as a 100X concentrate that is effective when used at a final . concentration of 1X; however, samples that contain particularly high levels of phosphatase activity may require a final concentration of 2-3X.
- The Halt Phosphatase Inhibitor Cocktail is compatible with our cell lysis reagents (see the Related Thermo Scientific Products Section).

Procedure for using Halt Phosphatase Inhibitor Cocktail

- 1. Briefly vortex the vial of Halt Phosphatase Inhibitor Cocktail to ensure a homogeneous suspension of the components.
- 2. Immediately before use, add 10µL of Halt Phosphatase Inhibitor Cocktail per milliliter of sample directly to the cell lysis buffer or extract to produce a 1X final concentration. Alternatively, use a final concentration of 2-3X (20-30µL/mL) in samples containing a high level of phosphatase activity.





Related Thermo Scientific Products

78428	Halt Phosphatase Inhibitor Single-Use Cocktail (100X), $24\times100\mu L$
88662	Pierce [®] Phosphatase Inhibitor Tablets, 20 tablets
87785	Halt Protease Inhibitor Cocktail, EDTA-Free (100X), 1mL
87786	Halt Protease Inhibitor Cocktail Kit, 1mL
88660	Pierce Protease Inhibitor Tablets, 30 tablets
88661	Pierce Protease Inhibitor Tablets, EDTA-free, 30 tablets
78440	Halt Protease and Phosphatase Inhibitor Cocktail (100X), 1mL
78441	Halt Protease and Phosphatase Inhibitor Cocktail, EDTA-Free (100X), 1mL
88663	Pierce Protease and Phosphatase Inhibitor Tablets, 20 tablets
88664	Pierce Protease and Phosphatase Inhibitor Tablets, EDTA-free, 20 tablets
89882	Zeba TM Spin Desalting Columns, 7K MWCO, 0.5mL, 25 columns
69574	Slide-A-Lyzer [®] MINI Dialysis Units, 10K MWCO, 10 units
78501	M-PER [®] Mammalian Protein Extraction Reagent, 250mL
78260	B-PER [®] II Bacterial Protein Extraction Reagent, 250mL
78510	T-PER® Tissue Protein Extraction Reagent, 500mL
78999	Y-PER [®] Plus Dialylzable Yeast Protein Extraction Reagent, 500mL
78833	NE-PER [®] Nuclear and Cytoplasmic Extraction Reagent
89826	Mem-PER [®] Eukaryotic Membrane Protein Extraction Reagent
78840	Subcellular Protein Fractionation Kit for Cultured Cells
87790	Subcellular Protein Fractionation Kit for Tissues
87792	N-PER [®] Neuronal Protein Extraction Reagent, 100mL
87793	Syn-PER [®] Synaptic Protein Extraction Reagent, 100mL
23225	Pierce BCA Protein Assay Kit
22660	Pierce 660nm Protein Assay Reagent, 750mL

This product ("Product") is warranted to operate or perform substantially in conformance with published Product specifications in effect at the time of sale, as set forth in the Product documentation, specifications and/or accompanying package inserts ("Documentation") and to be free from defects in material and workmanship. Unless otherwise expressly authorized in writing, Products are supplied for research use only. No claim of suitability for use in applications regulated by FDA is made. The warranty provided herein is valid only when used by properly trained individuals. Unless otherwise stated in the Documentation, this warranty is limited to one year from date of shipment when the Product is subjected to normal, proper and intended usage. This warranty does not extend to anyone other than the original purchaser of the Product ("Buyer").

No other warranties, express or implied, are granted, including without limitation, implied warranties of merchantability, fitness for any particular purpose, or non infringement. Buyer's exclusive remedy for non-conforming Products during the warranty period is limited to replacement of or refund for the non-conforming Product(s).

There is no obligation to replace Products as the result of (i) accident, disaster or event of force majeure, (ii) misuse, fault or negligence of or by Buyer, (iii) use of the Products in a manner for which they were not designed, or (iv) improper storage and handling of the Products.

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