

Product Data Sheet

Product Name: Protease and Phosphatase Inhibitor Cocktail (EDTA Free, 100X in ddH2O)
Cat. No.: GK10015

Components

Product Name	Summary	CAS Number	Targets
Leupeptin	Serine and cysteine protease inhibitors	103476-89-7	Proteases Serine Protease
Aprotinin	Bovine trypsin inhibitors	9087-70-1	Proteases Serine Protease
E-64	Cysteine protease inhibitors	66701-25-5	Proteases Cathepsin
Bestatin hydrochloride	Aminopeptidase inhibitors	65391-42-6	Proteases Aminopeptidase
Sodium Orthovanadate	PTP inhibitors	13721-39-6	Phosphatase Tyrosine Phosphatases
Sodium fluoride	Acid phosphatase inhibitors	7681-49-4	Phosphatase Serine and Threonine Phosphatases
β-glycerophosphate	Reversible inhibitors of serine/threonine phosphatase	13408-09-8	Phosphatase Serine and Threonine Phosphatases
Sodium pyrophosphate	Irreversible inhibitor of serine/threonine phosphatase	7722-88-5	Phosphatase Serine and Threonine Phosphatases

Store at -20°C for 1 year.

Protocol

Thaw at room temperature, add at 1:100 (v/v) dilution to solution samples (such as cell lysates or tissue extracts), before assaying. Application Fields: Western Blot analysis, Co-IP, pull-down, IF, IHC, kinase assay and etc.

Background

This product is a ready-to-use mixture of protease and phosphatase inhibitors (EDTA-free, 100X in ddH₂O), which can effectively inhibit the activity of proteases and phosphatases in conventional cell lysis and protein extraction. This product is suitable for experiments such as protein extraction from mammalian cells, primary cells, yeast cells, bacteria, animal tissues and plant tissues.

The main ingredients of this product include: serine|cysteine protease inhibitor Leupeptin, bovine trypsin inhibitor Aprotinin, aminopeptidase inhibitor Bestatin, cysteine protease inhibitor E-64, serine|threonine phosphatase reversible inhibitor β-glycerophosphate, serine|threonine phosphatase irreversible inhibitor Sodium Pyrophosphate, acid phosphatase inhibitor Sodium Fluoride, alkaline phosphatase|tyrosine phosphatase inhibitor Sodium Orthovanadate. In addition, this product does not contain EDTA, and metalloproteinases and aspartic acid proteases are not inhibited.

This product can effectively inhibit the functions of proteases such as serine proteases, leucine aminopeptidase, cysteine protease and aminopeptidase B, as well as phosphatases such as serine|threonine phosphatases, protein tyrosine phosphatases, acid phosphatases and alkaline phosphatases.

Recommended usage: When lysing cells or extracting proteins, mix this product with lysis buffer at a volume ratio of 1:100.

Protease and Phosphatase Inhibitor Cocktail EDTA-free, 100X in ddH₂O
Leupeptin Aprotinin Bestatin E-64 β-glycerophosphate Sodium Pyrophosphate Sodium Fluoride Sodium Orthovanadate EDTA
B
1:100

Caution: Product has not been fully validated for medical applications. For research use only.
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