

Product Data Sheet

Product Name: Protease and Phosphatase Inhibitor Cocktail (EDTA plus, 100X in ddH2O)

Cat. No.: GK10020

Components

Tube	Product Name	Summary	CAS Number	Targets
A (100X in ddH2O)	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	
B (100X in ddH2O)	EDTA, disodium salt, dihydrate	Metalloproteinase inhibitors	6381-92-6	Proteases Metalloproteinase

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 plus, 100X in ddH2O), which can effectively inhibit the activity of proteases and phosphatases in routine cell lysis and protein extraction. This product is suitable for experiments such as protein extraction of 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, and a metalloproteinase inhibitor EDTA aqueous solution is also provided.

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

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

EDTA in the product components may interfere with IMAC (immobilized metal affinity chromatography), protein stability (such as metal-containing proteins) or subsequent determinations. If you need to purify metalloproteases, aspartic acid proteases and Poly-His-tagged fusion proteins, it is recommended to use an EDTA-free protease and phosphatase inhibitor cocktail (GK10015).

Protease and Phosphatase Inhibitor Cocktail(EDTA plus, 100X in ddH2O)

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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Leupeptin, Aprotinin, Bestatin, E-64, beta-glycerophosphate, Sodium Pyrophosphate, Sodium Fluoride, Sodium Orthovanadate, EDTA, B, 1:100, EDTA, IMAC, Poly-His, EDTA, GK10015

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