

Protease and Phosphatase Inhibitor Cocktails,

choose from the widest range
of cocktails to compliment your sample

Key features:

- Convenient: Ready-To-Use formulations
- Consistent: High quality ensures reproducible performance
- Flexible: Sets of cocktails designed to target a range of proteases & phosphatases

www.merckbio.eu/InhibitorCocktails

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Protease Inhibitor Cocktails and Inhibitor Sets

Protease inhibitor cocktails and highly specific inhibitors of proteases are important tools for scientists engaged in a variety of proteomic studies including protein expression and characterization, biomarker discovery, mapping of post-translational modifications, protein expression

profiling, and the quantitative measurement of proteins. The addition of a protease inhibitor cocktail or protease inhibitor ensures the integrity of proteins for downstream analysis and further characterization of samples.

Product Spotlight

Protease Inhibitor Cocktail Set III, EDTA-Free	Cat. No.	Size	GBP Price £	EURO Price €
<ul style="list-style-type: none"> - EDTA-Free - recommended for applications requiring IMAC - Flexible - Use with bacterial extracts, mammalian cell and tissue extracts - Fast - no waiting for tablets to dissolve - Economical - ready-to-use format reduces wastage - Effective - One ml is sufficient for approximately 20 g tissue - Complete - six protease inhibitors for the inhibition of aspartic, cysteine, serine proteases and aminopeptidases 	539134	1 ml 1 set	39 164	71 309

Selection Guide for the Use of Specialized Protease Inhibitor Cocktails

Product	Cat. No.	Recommended Application	Protease Inhibitors	Size	GBP Price £	EURO Price €
Protease Inhibitor Cocktail Set I	539131	General use, use 1 ml in 100 ml extraction buffer	AEBSF, Aprotinin, E-64, EDTA, Leupeptin Hemisulfate	1 vial 10 vial	24 138	34 220
Protease Inhibitor Cocktail Set I, Animal Free	535142	General use, use 1 ml in 100 ml extraction buffer	AEBSF, Aprotinin, E-64, EDTA, Leupeptin Hemisulfate	1 ml 1 set	17 132	27 191
Protease Inhibitor Cocktail Set II	539132	Bacterial cell extracts (except those intended for metal chelation chromatography)	AEBSF, Bestatin, E-64, EDTA, Pepstatin A	1 set 5 set	39 164	93 375
Protease Inhibitor Cocktail Set III, EDTA-Free	539134	Mammalian cells and tissue extracts purified using metal chelation chromatography; samples to be analyzed by 2-D gel electrophoresis	AEBSF, Aprotinin, Bestatin, E-64, Leupeptin, Pepstatin A	1 ml 1 set	39 164	71 309
Protease Inhibitor Cocktail Set III, Animal-Free	535140	Mammalian cells and tissue extracts and for applications that require the use of animal-free reagents	AEBSF, Aprotinin, Bestatin, E-64, Leupeptin, Pepstatin A	1 ml 1 set	37 158	55 232
Protease Inhibitor Cocktail Set IV	539136	Fungal and yeast cell extracts	AEBSF, HCl, E-64, Pepstatin A, 1,10-Phenanthroline	1 ml 1 set	45 164	67 248
Protease Inhibitor Cocktail Set V, EDTA Free	539137	Mammalian cells and tissue extracts purified using metal chelation chromatography; samples to be analyzed by 2-D gel electrophoresis	AEBSF, HCl, Aprotinin, E-64, Leupeptin Hemisulfate	1 ml 10 vial	23 168	35 260
Protease Inhibitor Cocktail Set V, Animal-Free	535141	Mammalian cells and tissue extracts and for applications that require the use of animal-free reagents	AEBSF, HCl, Aprotinin, E-64, Leupeptin Hemisulfate	1 ml 1 set	37 132	55 183
Protease Inhibitor Cocktail Set VI	539133	Plant cell extracts	AEBSF, HCl, Bestatin, E-64, Leupeptin Hemisulfate, Pepstatin A, 1,10-Phenanthroline	1 ml 1 set	39 173	78 341
Protease Inhibitor Cocktail Set VII	539138	Proteins containing His•Tag® sequences	AEBSF, Bestatin, E-64, Pepstatin A, Phosphoramidone	1 ml 1 set	39 173	78 341
Protease Inhibitor Cocktail Set VIII	539129	Broad range cysteine protease inhibition	ALLN, E-64, Cathepsin	1 ml 1 set	39 173	78 341
Serine Protease Inhibitor Cocktail Set I	565000	Broad range serine protease inhibition	AEBSF, HCl, Aprotinin, Elastinal, GGACK	1 ml 1 set	38 154	75 298

Phosphatase Inhibitor Cocktails

Phosphorylation and dephosphorylation of proteins mediate signal transduction events that control a multitude of cellular processes such as cell division, cell proliferation, apoptosis, etc. Target proteins are phosphorylated by protein kinases that transfer a phosphate group to a specific protein, typically at serine, threonine, or tyrosine residues. The covalent attachment of a phosphoryl group changes the

conformation of the protein and alters its ability to interact with a ligand. The phosphate group is removed by the action of protein phosphatases, that restore the protein to its original dephosphorylated state. During the extraction of phosphorylated proteins from cell and tissue lysates, it is highly critical that the phosphorylation state of the proteins be preserved.

features:

- Convenient: Ready-To-Use formulations
- Consistent: High quality ensures reproducible performance
- Flexible: A set of cocktails designed to target different categories of phosphatases

Product Spotlight

Phosphatase Inhibitor Cocktail Set II	Cat. No.	Size	GBP Price £	EURO Price €
<ul style="list-style-type: none"> - Flexible - Use with cell lysates and tissue extracts, including samples containing detergents - Economical - ready-to-use format reduces wastage - Effective - One ml is sufficient for approximately 100 ml extraction buffer - Complete - five phosphatase inhibitors for the inhibition of acid and alkaline phosphatases and protein tyrosine phosphatases (PTPs). 	524625	1 set	162	278

Selection Guide for the Use of Specialized Phosphatase Inhibitor Cocktails

Product	Cat. No.	Recommended Application	Phosphatase inhibitor	Size	GBP Price £	EURO Price €
Phosphatase Inhibitor Cocktail Set II	524625	Protection against acid and alkaline phosphatases and Protein Tyrosine Phosphatases (PTPs)	Imidazole, Sodium Fluoride, Sodium Molybdate, Sodium Orthovanadate, Sodium Tartrate (Dihydrate)	1 set	162	278
Phosphatase Inhibitor Cocktail Set III	524627	Protection against Ser/Thr phosphatases and Protein Tyrosine Phosphatases (PTPs)	Sodium Fluoride, Sodium Othovanadate, Sodium Pyrophosphate (decahydrate), β-Glycerophosphate	1 ml 1 set	77 264	113 378
Phosphatase Inhibitor Cocktail Set IV	524628	Protection against alkaline phosphatases and Ser/Thr phosphatases such as PP1 and PP2A	(-)- <i>p</i> -Bromotetramisole oxalate, Cantharidin, Calyculin A, <i>Discodermia calyx</i>	1 ml 1 set	50 190	73 279
Phosphatase Inhibitor Cocktail Set V, 50X	524629			1 ml 1 set	67 226	97 327

PhosphoSafe™ Extraction Reagent	Cat. No.	Size	GBP Price £	EURO Price €
Preserve the native phosphorylation state while extracting cytosolic proteins from mammalian and insect cells with PhosphoSafe Extraction Reagent: <ul style="list-style-type: none"> • Includes four phosphatase inhibitors: sodium fluoride, sodium vanadate, β-glycerophosphate, and sodium pyrophosphate • Compatible with Western blotting, immunoprecipitation, and kinase activity assays 	71296	25 ml 125 ml	54 218	85 344



If you would like to test any of these products
please contact your local technical account manager:
www.merckbio.eu/accountmanager

Related Literature:

Protein Purification & Detection Tools, Novagen® Catalog 2009/2010, Calbiochem® Catalog 2008/2009



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