

Protease and phosphatase inhibitor cocktails

Protect your protein samples from degradation and preserve their phosphorylation state with our convenient and easy-to-use protease and phosphatase inhibitor cocktails. Several inhibitor combinations are available as well as water-soluble and DMSO options.

Protease inhibitor cocktails

Cell lysates contain endogenous proteases which degrade proteins and can affect sensitivity and reliability in protein expression research. It is therefore common practice to add protease inhibitors to lysate samples to protect proteins of interest. Our protease inhibitor cocktails inhibit a number of proteases including serine, cysteine and aspartic proteases.

+ Available protease inhibitor cocktails include the following:

Kit name	Key information	Inhibitors included	Target protease	Product code
Protease inhibitor cocktail (contains EDTA)	Broad specificity protease inhibitor cocktail for use with cell extracts and mammalian tissues.	Aprotinin, EDTA, Leupeptin, Pepstatin A, PMSF	Cysteine protease, Serine protease, Acid protease, Trypsin, Chymotrypsin and Mammalian acetylcholinesterase	ab65621
Protease Inhibitor Cocktail (EDTA-free)	Ideal for mammalian cell/ tissue lysates and bacterial cell extracts using metal chelation chromatography	AEBSF hydrochloride, Aprotinin (bovine lung), Bestatin, E-64, Leupeptin hemisulfate, Pepstatin A	Aminopeptidase B and leucine aminopeptidase, Aspartic protease, Cysteine protease, Serine protease	ab201111
Protease Inhibitor Cocktail II	General use cocktail	AEBSF hydrochloride, Aprotinin (bovine lung), E-64, EDTA disodium salt, Leupeptin hemisulfate	Cysteine protease, Metalloprotease, Serine protease	ab201116
Protease Inhibitor Cocktail III	Ideal for bacterial cell extracts using metal chelation chromatography	AEBSF hydrochloride, Bestatin, E-64, EDTA disodium salt, Pepstatin A	Aminopeptidase B and leucine aminopeptidase, Aspartic protease, Cysteine protease, Metalloprotease, Serine protease	ab201117
Protease Inhibitor Cocktail IV	Ideal for fungal and yeast cell extracts	AEBSF hydrochloride, E-64, Pepstatin A, o-Phenanthroline	Aspartic protease, Cysteine protease, Metalloprotease, Serine protease	ab201118

Phosphatase inhibitor cocktails

Approximately 30% of known proteins can be reversibly phosphorylated in order to control a number of cellular processes. Protein kinases predominantly phosphorylate at serine, threonine and tyrosine residues - phosphatases reverse this phosphorylation. When studying these processes and pathways it is therefore essential to preserve the phosphorylation state of these proteins in your samples. Our phosphatase inhibitor cocktails inhibit a number of phosphatases including specific serine/threonine and tyrosine phosphatases as well as non-specific acid and alkaline phosphatases.

+ Available phosphatase inhibitor cocktails include the following:

Kit name	Inhibitors included	Target phosphatases	Product code
Phosphatase Inhibitor Cocktail I	β -Glycerophosphate, Sodium fluoride, Sodium orthovanadate, Sodium pyrophosphate decahydrate	Acid phosphatase, Alkaline phosphatase, Protein tyrosine phosphatase, Serine/threonine phosphatase	ab201112
Phosphatase Inhibitor Cocktail II	Imidazole, Sodium fluoride, Sodium molybdate, Sodium orthovanadate, Sodium tartrate dihydrate	Acid phosphatase, Alkaline phosphatase, Protein tyrosine phosphatase, Serine/threonine phosphatase	ab201113
Phosphatase Inhibitor Cocktail III	(-)-p-Bromotetramisole oxalate, Cantharidin, Calyculin A	Alkaline phosphatase, Serine/threonine phosphatase (PP1 and PP2A)	ab201114
Phosphatase Inhibitor Cocktail IV	β -Glycerophosphate, Imidazole, Sodium fluoride, Sodium molybdate, Sodium orthovanadate, Sodium tartrate dihydrate	Acid phosphatase, Alkaline phosphatase, Protein tyrosine phosphatase, Serine/threonine phosphatase	ab201115

Protease and phosphatase inhibitor cocktails

+ To protect against both protease and phosphatases in one solution try our dual cocktails:

Kit name	Key information	Inhibitors included	Target protease/ phosphatases	Product code
Protease and Phosphatase Inhibitor Cocktail	AESBF free and mass spectroscopy compatible - water-soluble	Aprotinin (bovine lung), Bestatin, E-64, Leupeptin hemisulfate, β -Glycerophosphate, Sodium fluoride, Sodium orthovanadate, Sodium pyrophosphate decahydrate, EDTA disodium salt	Aminopeptidase B and leucine aminopeptidase, Cysteine protease, Metalloprotease, Serine protease, Acid phosphatase, Alkaline phosphatase, Protein tyrosine phosphatase, Serine/threonine phosphatase	ab201119
Protease and Phosphatase Inhibitor Cocktail (EDTA-free)	AESBF free and mass spectroscopy compatible - water-soluble	Aprotinin (bovine lung), Bestatin, E-64, Leupeptin hemisulfate, β -Glycerophosphate, Sodium fluoride, Sodium orthovanadate, Sodium pyrophosphate decahydrate	Aminopeptidase B and leucine aminopeptidase, Cysteine protease, Serine protease, Acid phosphatase, Alkaline phosphatase, Protein tyrosine phosphatase, Serine/threonine phosphatase	ab201120