

Protease and Phosphatase Inhibitor Cocktails

Proteases are a family of naturally occurring regulatory enzymes that cleave the peptide bonds between the amino acids of polypeptide chains. During protein expression and isolation, endogenous cellular proteases can rapidly digest cellular proteins resulting in substantially diminished quality and quantity of protein samples needed for characterization and analysis. BioVision has introduced a new and exciting line of general, as well as specific protease inhibitors and cocktails, which can prevent in vitro proteolysis events. These protease inhibitors and cocktails are provided in an easy-to-use form and can be employed for inhibition of a broad range of proteases. The inhibitor cocktail kits are designed to include various combinations of inhibitors at their optimum concentrations, providing researchers with a number of options to specifically choose from, including the EDTA-free form.

Protein phosphorylation is the most common and important form of reversible protein posttranslational modification (PTM), with up to 30% of all proteins being phosphorylated at any given time. A wide range of biological processes are controlled by phosphorylation and dephosphorylation of proteins. In order to understand the accurate phosphorylated status of a protein, it is important to preserve the phosphorylation state of the proteins during the extraction of phosphoproteins from tissue and cell sample lysates. BioVision introduces five different EZBlock™ Phosphatase Inhibitor Cocktails and two new Universal Protease and Phosphatase inhibitor cocktails, which would provide protection against both proteases and phosphatases during protein extraction and purification.

Protease & Phosphatase Inhibitor Cocktails

Product Name	Cat. No.	Target Proteases/Phosphatases
EZBlock™ Protease Inhibitor Cocktail	K271-500	Aspartic, Cysteine, Serine proteases, and Esterases
EZBlock™ Protease Inhibitor Cocktail, EDTA-Free	K272-1, 5, set	Aspartic, Cysteine, Serine, Trypsin-like proteases, Aminopeptidases, and Esterases
EZBlock™ Protease Inhibitor Cocktail II	K277-set	Cysteine, Serine, Trypsin-like proteases, Aminopeptidases, Metalloproteases and Esterases
EZBlock™ Protease Inhibitor Cocktail II, Animal- Free	K394-1, set	Cysteine, Serine, Trypsin-like proteases, Aminopeptidases, Metalloproteases and Esterases
EZBlock™ Protease Inhibitor Cocktail III	K278-set	Aspartic, Cysteine, Serine, Trypsin-like proteases, Aminopeptidases, Metalloproteases
EZBlock™ Protease Inhibitor Cocktail IV	K279-1, set	Aspartic, Cysteine, Serine proteases, and Metalloproteases
EZBlock™ Protease Inhibitor Cocktail V, EDTA-Free	K290-1, set	Cysteine and Serine proteases
EZBlock™ Protease Inhibitor Cocktail VI, General Use	K291-1, set	Cysteine , Serine proteases, Aminopeptidases and Metalloproteases
EZBlock™ Protease Inhibitor Cocktail VII	K292-1 ,set	Aspartic, Cysteine , Serine proteases, Aminopeptidases and Metalloproteases
EZBlock™ Protease Inhibitor Cocktail VIII	K293-1, set	Aspartic, Cysteine , Serine proteases, Aminopeptidases and thermolysin-like proteases
EZBlock™ Protease Inhibitor Cocktail VIII, DMSO-Free	K395-1, set	Aspartic, Cysteine , Serine proteases, Aminopeptidases and thermolysin-like proteases

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Product Name	Cat. No.	Target Proteases/Phosphatases
EZBlock™ Protease Inhibitor Cocktail IX	K294-1, set	Cysteine proteases, including Calpains, Cathepsins and Papain.
EZBlock™ Protease Inhibitor Cocktail X, EDTA-Free	K297-1, set	Cysteine, Serine and Aminopeptidases
EZBlock™ Protease Inhibitor Cocktail XII, EDTA-Free, Animal-Free	K221-1, set	Cysteine and Serine proteases
EZBlock™ Protease Inhibitor Cocktail XIII, EDTA-Free, Animal-Free	K222-1, set	Aspartic, Cysteine and Serine proteases, Aminopeptidases, Acid proteases
EZBlock™ Protease Inhibitor Cocktail XIV	K223-1, set	Cysteine proteases including Cathepsins and Papain
EZBlock™ Protease Inhibitor Cocktail XV	K393-1, set	Cysteine proteases including Cathepsins and Papain
EZBlock™ Phosphatase Inhibitor Cocktail I	K273-1, set	Acid phosphatases, Alkaline phosphatases, Ser/Thr Phosphatases, Protein Tyrosine Phosphatases
EZBlock™ Phosphatase Inhibitor Cocktail II	K275-1, set	Acid phosphatases, Alkaline phosphatases, Ser/Thr Phosphatases, Protein Tyrosine Phosphatases
EZBlock™ Phosphatase Inhibitor Cocktail III	K276-1, set	Alkaline phosphatases, Ser/Thr Phosphatases (PP1 and PP2A)
EZBlock™ Phosphatase Inhibitor Cocktail IV	K282-1, set	Acid phosphatases, Alkaline phosphatases, Ser/Thr Phosphatases, Protein Tyrosine Phosphatases
EZBlock™ Phosphatase Inhibitor Cocktail XI	K298-1, set	Acid phosphatases, Alkaline phosphatases, Protein Tyrosine Phosphatases
EZBlock™ Universal protease & Phosphatase Inhibitor Cocktail	K283-1, set	Cysteine, Serine, Trypsin-like proteases, Aminopeptidases, Metalloproteases and Esterases, Acid phosphatases, Alkaline phosphatases, Ser/ Thr Phosphatases, Protein Tyrosine Phosphatases
EZBlock™ Universal protease & Phosphatase Inhibitor Cocktail, EDTA-Free	K284-1, set	Cysteine, Serine, Trypsin-like proteases, Aminopeptidases, Metalloproteases and Esterases, Acid phosphatases, Alkaline phosphatases, Ser/ Thr Phosphatases, Protein Tyrosine Phosphatases

Please visit www.biovision.com for a comprehensive overview on our products!