

Protease Inhibitor Cocktail (100X in H₂O, EDTA Plus)

Product description

Endogenous proteins are produced and degraded in equilibrium and therefore their cellular level is stable under stable environmental conditions. Crude cell extracts contain many endogenous enzymes capable of degrading proteins in the extract, such as phosphatases and proteases. When proteins are extracted from cells and tissues in vitro, protein production is significantly inhibited, and degradation increases. The best way to increase intact protein production is to add inhibitors of those enzymes that are known to be present. The protease inhibitor cocktail is used in cell lysates or tissue extracts to improve protein stability.

The product is a ready-to-use water-soluble mixed concentrate containing EDTA, which has broad specificity and can be used as a spectral protease inhibitor mixture. The protease inhibitor cocktail contains several important components, including AEBSF, Aprotinin, Bestatin hydrochloride, E-64, Leupeptin, and EDTA, which are broadly specific for serine, cysteine, acid proteases, aminopeptidases, and metalloproteases. The product can be used for Western Blot, Co-IP, pull-down, IF, IHC, Kinase assay and other experiments.

It is important to note that EDTA inhibits enzyme activity by chelating divalent cations necessary for metalloproteinase activity, so EDTA may affect the activity of other proteins. Pre-experiments may be required in specific experiments to determine whether EDTA has adverse effects. If the protein of interest is to be purified using immobilized metal chelation affinity chromatography (IMAC) or 2D gel electrophoresis analysis is required, EDTA must be removed by extensive dialysis or desalting prior to purification.

Components and storage conditions

Catalog No.	Product Name	Summary	Targets	CAS Number	Smiles
A2573	AEBSF.HCl	Serine protease inhibitor	Proteases Serine Protease	30827-99-7	<chem>C1=CC(=CC=C1CCN)S(=O)(=O)F.Cl</chem>
A2574	Aprotinin	Inhibitor of bovine pancreatic trypsin	Proteases Serine Protease	9087-70-1	
A2575	Bestatin	Aminopeptidase inhibitor	Proteases Aminopeptidase	58970-76-6	<chem>CC(C)CC(C(=O)O)NC(=O)C(C(C1=CC=CC=C1)N)O</chem>



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