

Product Data Sheet

Product Name: Protease Inhibitor Cocktail (100X in DMSO, EDTA plus)
Cat. No.: GK10022

Protocol

Thaw on ice, add at 1:100 (v/v) dilution to solution samples (such as cell lysates or tissue extracts) before assaying.

Applications: WB, Co-IP, pull-down, IF, IHC, Flow Cytometry, kinase assay and etc.

Background

Protease Inhibitor Cocktail (100X in DMSO, EDTA plus), which is used during cell lysis and protein extraction, is a ready-to-use concentrated stock solutions of multiple protease inhibitors for endogenous protease. This product contains a separate 0.5M EDTA solution which inhibiting metalloproteases.

It generates optimized concentrations of six broad-spectrum protease inhibitors stabilized in DMSO, that powerfully inhibits serine-proteases, cysteine-proteases, aspartic acid-proteases and aminopeptidases appearing in cellular lysate samples. EDTA provides inhibition for metalloproteases.

EDTA inhibits metalloproteases by chelating the divalent cations that is necessary for their activity, so the activities of other proteins may be affected by EDTA. Therefore, empirical testing may be need in particular experiments to determine if EDTA will take a bad impact. If the protein of interest is to be purified using immobilized metal chelate affinity chromatography (IMAC) or analyzed by 2D gel electrophoresis, EDTA must be removed by extensive dialysis or desalting before purifying.

100X DMSO EDTA
0.5M EDTA

DMSO
EDTA

EDTA EDTA
IMAC EDTA

Caution: Product has not been fully validated for medical applications. For research use only.
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Tube	Ingredient	M.W.	Target
A (100X in DMSO)			
AEBSF	239.5	Serine proteases	
Aprotinin	6511.5	Serine proteases	
Bestatin	308.38	Aminopeptidases	
E-64	357.4	Cysteine proteases	
Leupeptin	475.6	Alkaline phosphatases	
Pepstatin A	685.9	Aspartic proteases	
B (100X in ddH ₂ O)	EDTA	372.24	Protease

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