

Proteoloc™ Protease Inhibitor Cocktail EDTA-free USE AND STORAGE INSTRUCTIONS

INTRODUCTION

Protease inhibitors protect proteins from undesirable cleavage by endogenous proteases liberated during extraction. Proteoloc Protease Inhibitor Cocktail EDTA-free protects protein extracts from aminopeptidases, metalloproteases, and serine, cysteine, and aspartic acid proteases. Proteoloc Protease Inhibitor Cocktail EDTA-free is supplied as a 100X stock solution of protease inhibitors dissolved in DMSO.

USAGE GUIDELINES

- Proteoloc Protease Inhibitor Cocktail EDTA-free is a general-purpose reagent suitable for protease inhibition during protein extraction from mammalian tissues and cells, yeast and fungal cells, and bacteria.
- Proteoloc Protease Inhibitor Cocktail EDTA-free does not contain the chelating agent EDTA and therefore its effectiveness against metalloproteases is limited by comparison to protease preparations that do contain EDTA. Proteoloc Protease Inhibitor Cocktail EDTA-free is compatible with techniques which require the absence of EDTA, such as isoelectric focusing and metal affinity column separations. For other applications, use "Proteoloc™ Protease Inhibitor Cocktail," which includes EDTA.
- For Research Use Only.

COMPOSITION

Proteoloc Protease Inhibitor Cocktail EDTA-free contains the following protease inhibitors:

- AEBSF: Irreversible serine protease inhibitor. Inhibits chymotrypsin, kallikrein, plasmin, thrombin, and trypsin.
- Aprotinin: Reversible serine protease inhibitor. Inhibits chymotrypsin, kallikrein, plasmin, trypsinogen, and urokinase.
- Bestatin: Metalloprotease inhibitor selective for aminopeptidases. Inhibits activity of leucine aminopeptidase, aminopeptidase B, and triamino peptidase.
- E-64: Irreversible inhibitor of cystine proteases. Inhibits calpain, papain, and cathepsin B.
- Leupeptin: Reversible inhibitor of serine and cystine proteases. Inhibits calpain, papain, trypsin, and cathepsin B.
- Pepstatin A: Reversible aspartic acid protease inhibitor. Inhibits pepsin, rennin, cathepsin D, chymosin, and protease B.

STORAGE AND STABILITY

Store Proteoloc Protease Inhibitor Cocktail EDTA-free at 4 °C. Product shelf life is eight months.

RECOMMENDED PROCEDURE

PROTOCOL

Allow product to thaw at room temperature. Agitate or vortex container to ensure uniform solution. Proteoloc Protease Inhibitor Cocktail EDTA-free is provided as a 100X stock solution. Dilute product into desired lysis buffer to obtain a 1X concentration (5mM). For example, dilute 100 µL Proteoloc Protease Inhibitor Cocktail EDTA-free into 10 mL UPX™ Universal Protein Extraction Kit buffer. Proceed in accord with extraction kit or lysis buffer protocol.

REORDERING INFORMATION

DESCRIPTION

Proteoloc Protease Inhibitor Cocktail EDTA-free

DESCRIPTION	PART NUMBER
Proteoloc Protease Inhibitor Cocktail, EDTA-free 100 µLx24 single-use vials	44211
Proteoloc Protease Inhibitor Cocktail, EDTA-free 1 mL vial	44212
Proteoloc Protease Inhibitor Cocktail, EDTA-free 5 mL vial	44213
Proteoloc Protease Inhibitor Cocktail, EDTA-free 10 mL vial	44214



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