

Protease Inhibitor Cocktail

Complete Inhibition of Protease Activities

Description

Protease Inhibitor Cocktail

Cat. No.

PG-122-1ml

INTRODUCTION

Due to the optimized concentration of the various inhibitors, the Protease Inhibitor Cocktail shows excellent inhibition of protease activities and is therefore suitable for the protection of proteins during purification from animal tissues, plant tissues, yeast and bacteria. Protease Inhibitor Cocktail contains both irreversible and reversible protease inhibitors to inhibit serine, cysteine and other proteases. An optional EDTA is provided to inhibit metalloproteases.

Since some proteins require divalent cations like Ca²⁺, Mg²⁺ or Mn²⁺ for their biological activity, the presence of EDTA may be detrimental to the protein activity. Furthermore, if the protein of interest is purified using immobilized metal chelate affinity chromatography; EDTA must be removed from the buffer before the chromatography. The Protease Inhibitor Cocktail is therefore supplied with an optional EDTA solution and may be added in the extraction buffer or lysate as needed. Protease Inhibitor Cocktail at 1X concentration in extraction buffer at pH 7-8 inhibits over 90% of protease activities (e.g. Mouse Pancreas Extract, 0.5mg/ml protein).

ITEM SUPPLIED

Description

Protease Inhibitor Cocktail (100X)
0.5M EDTA (100X)

Pack Size

1ml
2ml

STORAGE CONDITIONS

It is shipped at ambient temperature. Upon arrival, store it refrigerated at 4°C, and is stable for 1 year*. Avoid freeze/thawing of the Protease Inhibitor Cocktail

PROTOCOL

Allow the Protease Inhibitor Cocktail solution to warm to room temperature and briefly vortex or tap the vial to mix it completely before removing the solution for use.

Add Protease Inhibitor Cocktail 10µl/ml directly in an appropriate volume of extraction buffer or extract to 1X final concentration.

NOTE: *In buffer solution, Protease Inhibitor Cocktail is stable for up to one week at 4°C and for 4-6 weeks at -20°C.

For higher potency of protease inhibition, add Protease Inhibitor Cocktail 20-30µl/ml to get 2-3X final concentration.

OPTIONAL: For inhibition of metalloproteases (if the buffer does not contain EDTA), add 0.5M EDTA 10µl/ml directly in an appropriate volume of extraction buffer or extract to 1X final concentration.

