

Store at -20°C

# Protease Inhibitor Cocktail

**Cat. No.**

PG-052-1ml

**INTRODUCTION**

Protease inhibitor cocktail contains optimized concentrations of various mammalian protease inhibitors, which provide excellent inhibition of protease activities during protein purification from mammalian cells and tissues. The cocktail contains both reversible and irreversible protease inhibitors to inhibit serine, cysteine and specific inhibitors for mammalian proteases, such as aminopeptidases. A 1X concentration of Protease Inhibitor Cocktail inhibits over 90% of protease activities.

Optional EDTA is provided to inhibit metalloproteases. Some proteins require divalent cations (Ca<sup>2+</sup>, Mg<sup>2+</sup> or Mn<sup>2+</sup>) for their biological activity and the presence of EDTA may be detrimental to the protein's activity. Furthermore, EDTA inhibits the purification of proteins by immobilized metal affinity chromatography; EDTA, therefore Protease Inhibitor Cocktail is supplied with an optional EDTA solution.

**Description**

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

**Pack Size**

1ml  
2ml

**STORAGE CONDITIONS**

The kit is shipped at ambient temperature. Store refrigerated at 4°C upon arrival, stable for 1 year.

*NOTE: Once diluted, Protease Inhibitor Cocktail is stable for 1-2 weeks at 4°C or for 4-6 weeks at -20° C.*

**PROTOCOL**

1. Allow the Protease Inhibitor Cocktail to reach room temperature, then vortex or tap the vial before use.
2. Add 10µl 100X Protease Inhibitor Cocktail to each 1ml of extraction buffer or extract for a 1X final concentration. Mix the solution thoroughly.

Optional: For higher potency of protease inhibition, 20-30µl/ml Protease Inhibitor Cocktail may be used.

*NOTE: For inhibition of metalloproteases, add 10µl of 100X EDTA per ml of extraction buffer or extract for a 1X final concentration. Not required if EDTA is already present.*

