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A Geno Technology, Inc. (USA) brand name

ProteaseArrest™

For Complete Inhibition of Protease Activities

(Cat. # 786-108, 786-437, 786-711, 786-712)

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INTRODUCTION

Due to the optimized concentration of the various inhibitors, the Protease Arrest™ 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 Arrest™ 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 Ca^{2+}, Mg^{2+} or Mn^{2+} 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 Arrest™ is therefore supplied with an optional EDTA solution and may be added in the extraction buffer or lysate as needed.

Protease Arrest™ 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(S) SUPPLIED

Description	786-108	786-437	786-711	786-712
ProteaseArrest™ [100X]	2ml	5ml	10ml	5 x 10ml
0.5M EDTA [100X]	2ml	5ml	10ml	5 x 10ml

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 ProteaseArrest™.

PROTOCOL

Allow the ProteaseArrest 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 *Arrest*™ 10µl/ml directly in an appropriate volume of extraction buffer or extract to 1X final concentration.

NOTE: **In buffer solution, Protease Arrest*™ *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 *Arrest*™ 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.*

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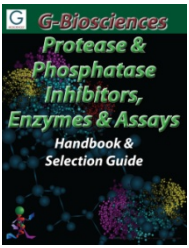
RELATED PRODUCTS

Download our Protease & Phosphatase Inhibitors, Enzyme & Assays Handbook.



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