ProteaseArrest™

For Complete Inhibition of Protease Activities

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

<table>
<thead>
<tr>
<th>Description</th>
<th>786-108</th>
<th>786-437</th>
<th>786-711</th>
<th>786-712</th>
</tr>
</thead>
<tbody>
<tr>
<td>ProteaseArrest™ [100X]</td>
<td>2ml</td>
<td>5ml</td>
<td>10ml</td>
<td>5 x 10ml</td>
</tr>
<tr>
<td>0.5M EDTA [100X]</td>
<td>2ml</td>
<td>5ml</td>
<td>10ml</td>
<td>5 x 10ml</td>
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</tbody>
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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.
RELATED PRODUCTS
Download our Protease & Phosphatase Inhibitors, Enzyme & Assays Handbook.

http://info.gbiosciences.com/protease-phosphatase-inhibitors-enzymes-assay-handbook

For other related products, visit our website at www.GBiosciences.com or contact us.

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