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A Geno Technology, Inc. (USA) brand name

OneQuant™ ProteaseArrest™

For Complete Inhibition of Protease Activities

(Cat. # 786-329)



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INTRODUCTION

Due to the optimized concentration of the various inhibitors, the OneQuant™ ProteaseArrest™ 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. OneQuant™ ProteaseArrest™ 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 OneQuant™ ProteaseArrest™ is therefore supplied with an optional EDTA solution and can be added in the extraction buffer or lysate as needed.

OneQuant™ ProteaseArrest™ 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 (Cat. # 786-329)

Description	Size
OneQuant™ ProteaseArrest™ [100X]	24 x 100µl
0.5M EDTA [100X]	2ml

STORAGE CONDITIONS

The kit is shipped at ambient temperature. Upon arrival, store it at 4°C and is stable for 1 year.

NOTE: In buffer solution, OneQuant™ ProteaseArrest™ is stable for up to one week at 4°C and for 4-6 weeks at -20°C.

INSTRUCTIONS FOR USE

Allow the solution to warm to room temperature. The solution is in suspension form; vortex or tap the vial before removing the solution.

Take out OneQuant™ ProteaseArrest™ by piercing the aluminum seal on one of the tubes and add 10µl/ml directly in an appropriate volume of extraction buffer or protein extract to 1X final concentration.

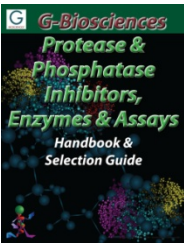
NOTE: *In buffer solution, OneQuant™ ProteaseArrest™ is stable for up to one week at 4°C and for 4-6 weeks at -20°C.*

For higher potency of protease inhibition, 20-30µl/ml OneQuant™ ProteaseArrest™ can be added to get 2-3X final concentration of the inhibitor cocktail.

OPTIONAL: *For inhibition of metalloproteases (if the buffer does not contain EDTA), add 10µl/ml 0.5M EDTA directly to 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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