

Instructions: Protease Inhibitor

Protease Inhibitor ensures complete inhibition of protease activity and is part of the Ettan™ range of Sample Preparation Kits and Reagents.

Protease Inhibitor contains both irreversible and reversible protease inhibitors to inhibit serine, cysteine, and calpain proteases. EDTA may optionally be added to inhibit metalloproteases as well.

The kit is suitable for the protection of all proteins during purification from animal tissues, plant tissues, yeast and bacteria.

Storage

Store kit components at -20 °C after opening.

Stability

- Protease Inhibitor is stable for 1 year when stored under the recommended conditions.
- Once diluted in buffer solution, Protease Inhibitor can be stored for up to 2 weeks at 2 to 8 °C or 12 weeks at -20 °C

Components

Protease Inhibitor (100× solution), 1 ml

Protocol

1

Allow the solution to warm to ambient temperature.

2

The solution is in suspension form. Vortex briefly before using.

3

Dilute Protease Inhibitor 1:100 (10 µl/ml) in an appropriate volume of extraction buffer or extract.

Further options

- If a higher potency of protease inhibition is required add Protease Inhibitor at a concentration of 20–30 µl/ml to get a 2–3× final concentration.
- For the inhibition of metalloproteases, add EDTA directly in an appropriate volume of extraction buffer or extract to give a final concentration of 5 mM EDTA in the reaction.
- EDTA must not be added if the solution is to be used in conjunction with Nuclease Mix, as EDTA acts as a nuclease inhibitor.

Related products

Nuclease Mix (80-6501-42)

Note: Protease Inhibitor is provided free of EDTA as some proteins require divalent cations like Ca²⁺, Mg²⁺ or Mn²⁺ for their biological activity. Thus the presence of EDTA may be detrimental to sample protein activity.

Warning! For research use only.

Not recommended or intended for diagnosis of disease in humans or animals. Do not use internally or externally in humans or animals.

All chemicals should be considered as potentially hazardous. We therefore recommend that this product is handled only by those persons who have been trained in laboratory techniques and that it is used in accordance with the principles of good laboratory practice. Wear suitable protective clothing such as laboratory overalls, safety glasses and gloves. Care should be taken to avoid contact with skin or eyes. In the case on contact with skin or eyes wash immediately with water.

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