

ProteinSafe™ Protease Inhibitor Cocktail (100×)

Cat. No. DI111

Storage: at -20°C for one year

Description

ProteinSafe™ Protease Inhibitor Cocktail (100×) is a ready-to-use mixture of seven protease inhibitors (AEBSF, Aprotinin, Bestatin, E-64, Leupeptin, Pepstatin A and EDTA) that has been optimized to protect proteins from being digested by endogenous proteases, including serine protease, cysteine protease, aminopeptidase, aspartic acid protease and metalloprotease. This cocktail is suitable for use in protein purification, Western Blot, Co-IP, ChIP, protein kinase activity assay, etc. It contains a separate component of EDTA which is incompatible with some downstream applications (i.e. protein assays, 2D electrophoresis, etc.). EDTA can be added to the cell lysis buffer if it is required as a metalloprotease inhibitor.

Highlights

- All-in-one format: a mixture of broad-spectrum protease inhibitors to prevent proteolytic degradation.
- Ready to use: no need to thaw and dissolve the cocktail, just use directly.
- Compatibility: compatible with most of protein lysis buffers composed of detergent and do not interfere with protein quantitation.

Kit Content

Component	DI111-01	DI111-02
<i>ProteinSafe</i> ™ Protease Inhibitor Cocktail (100×)	500 µl	1 ml
EDTA (100×)	500 µl	1 ml

Procedures

- Briefly vortex the Protease Inhibitor Cocktail (100×) before use to ensure a homogeneous suspension.
- Immediately before use, dilute the cocktail and EDTA at 1:100(v/v) with lysis buffer to produce a 1× working concentration.

Notes

- This inhibitor cocktail is generally effective when used at a 1× final concentration. However, samples with high levels of proteases might require a more concentrated treatment (i.e., 2-3×).
- The concentration of EDTA stock solution is 0.5 M, the recommended working concentration is 5 mM.
- If the inhibition of phosphatases is required, please use *ProteinSafe*™ Phosphatase Inhibitor Cocktail (DI201) along with this cocktail.
- The cocktail should be stored at -20°C for long term storage or at 2-8°C if used within a short time.

FOR RESEARCH USE ONLY