

***ClearBand* 100x Protease Inhibitor Cocktail**

1 ml, 5x1 ml

Cat No: PIC1, PIC5

Shipping : Ship with blue ice.

Storage : Store at -20°C.

General Information

ClearBand 100x Protease Inhibitor Cocktail is formulated for efficient inhibition of endogenous proteases during cell lysis and protein extraction. *ClearBand* 100x Protease Inhibitor Cocktail contains six broad-spectrum protease inhibitors (AEBSF, Aprotinin, Bestatin, E-64, Leupeptin, and Pepstatin A) in DMSO, that powerfully inhibits serine-proteases, cysteine-proteases, aspartic acid-proteases and aminopeptidases appearing in cellular lysate samples. EDTA, that is provided separately provides inhibition for metalloproteases.

EDTA inhibits metalloproteases by chelating the divalent cations that is necessary for their activity, so the activities of other proteins may be affected by EDTA. Therefore, empirical testing may be need in particular experiments to determine if EDTA will take a bad impact. If the protein of interest is to be purified using immobilized metal chelate affinity chromatography (IMAC) or analyzed by 2D gel electrophoresis, EDTA must be removed by extensive dialysis or desalting before purifying.

Suitable for use in following applications;

WB, Co-IP, pull-down, IF, IHC, Flow Cytometry, kinase assay and etc.

Protocol

1. Thaw *ClearBand* 100x Protease Inhibitor Cocktail on ice,
2. Immediately before cell lysis or tissue extraction, add the inhibitor to the lysis or extraction buffer at a 1:100 (v/v) dilution to protect proteins from degradation during sample preparation.