

# Protease Inhibitor Cocktail (100X, EDTA-free)

Cat. # P1091-1, P1091-5, P1091-10, P1091-20

**Also Known as:** Protease inhibitor cocktail

Component	Protease Target	Inhibitor Type	100 X Inhibitor Conc.
Aprotinin	Serine proteases	Reversible	0.08 mM
Pepstatin A	Aspartic acid proteases	Reversible	1 mM
Bestatin	Amino-peptidases	Reversible	5 mM
AEBSF HCl	Serine proteases	Irreversible	100 mM
Leupeptin Hemisulfate	Serine/cysteine proteases	Reversible	2 mM
E64D	Cysteine proteases	Irreversible	1.5 mM

**Form:** Solution in DMSO

**Concentration:** 100X stock

**Quality Assurance:** ≥98% purity for each individual inhibitor

**Description:** The Protease Inhibitor Cocktail (100X, EDTA-free) contains an optimized mixture of six protease inhibitors prepared in DMSO as a ready-to-use 100X stock. The inhibitors (Aprotinin, AEBSF, Bestatin, E64, Leupeptin Hemisulfate, and Pepstatin A) in the cocktail provide a broad-spectrum protection against serine proteases, cysteine proteases, aspartic acid proteases and aminopeptidases in mammalian cells and tissues, as well as in bacterial cells.

If EDTA is desired for inhibition of metalloproteases in an application, add EDTA (not provided) to the lysis buffer at a final working concentration of 5 mM.

To prepare 1X Protease Inhibitor Cocktail-containing lysis buffer:

- 1) Thaw the Protease Inhibitor Cocktail under room temperature or warm up in your palm.
- 2) Add an appropriate amount of the cocktail stock into lysis buffer directly (1 to 100 dilution, such as 0.1 ml cocktail solution into 9.9 ml lysis buffer), vortex immediately to dissolve inhibitors.

**Storage:** Wet ice shipping. Store at -20°C upon receiving; avoid multiple freeze-thaw cycles. Stock in DMSO is stable for one year if stored at -20°C.