



PIC-0100

Protease Inhibitor Cocktail

Each vial contains sufficient material to make 125 ml of a 1X working solution.

Presented as: Lyophilized solid.

Storage: 4°C. Once reconstituted, store at -20°C under nitrogen (Hygroscopic)

Description: A cocktail of four broad specificity protease inhibitors that provides maximal protection, preventing degradation of proteins in mammalian tissue and cell preparations by inhibition of a variety of cysteine and serine proteases.

Protease Inhibitor	M.W.	Target	Amount (500x)	Suggested working concentration**
Aprotinin	6512	Broad spectrum, serine proteases	230 µg/vial	0.06-2 µg/ml (0.01-0.3 µM)
Leupeptin	475.6	Serine/Cysteine proteases	230 µg/vial	0.5-2 µg/ml (1-4 µM)
Pepstatin A	685.9	HIV proteases, Aspartic proteases, Acid proteases	80 µg/vial	~0.7 µg/ml (~1 µM)
PMSF	174.2	Serine/Cysteine proteases/ Mammalian acetylcholinesterase	20 mg/vial	17-170 µg/ml (0.1-1 mM)

** Recommended starting concentration range. Use 2 µl of concentrated PIC per ml of cell or tissue prep. Optimal concentrations should be determined for different sample types.

Preparation: Add 250 µl DMSO to the vial, vortex gently to dissolve the powder completely. This is a 500X concentrated inhibitor cocktail. One vial can be used with up to 125 ml of cell or tissue preparation.

FOR RESEARCH USE ONLY! Not to be used on humans.