

Protease Inhibitor Cocktail

<u>Product Name</u>	<u>Product Code</u>	<u>Kit Packing</u>
Protease Inhibitor Cocktail	ML051-1ML	1ml
	ML051-5ML	5ml

Introduction:

Protease Inhibitor Cocktail is used for the instantaneous protection of proteins from various proteases during cell extraction procedure. It is effective on extracts from almost any tissue or cell, including animals, plant, yeast, bacteria, or fungi. HiMedia's Protease Inhibitor Cocktail is a broad-spectrum protease inhibitor and does not contain any phosphatase inhibitors.

Description:

Proteases are endogenous cellular enzymes that degrade proteins during preparation of crude cell extract and great care should be taken to get a good yield of protein. For this reason protease inhibitors are used for the protection of extracted proteins from several proteases. This product is a mixture of six broad-spectrum protease inhibitors in Dimethylsulfoxide (DMSO) with different target protease specificities. It effectively inhibits serine-proteases, cysteine-proteases, aspartic acid-proteases and aminopeptidases that are usually present in cellular lysate samples. This protease inhibitor cocktail is very convenient and effective compared to individual inhibitors as it is supplied as 100X concentrated ready-to-use solution. 0.5 M EDTA is provided with the protease inhibitor cocktail in a separate vial. The EDTA-free form of the inhibitor is compatible with isoelectric focusing.

Application:

Protease Inhibitor Cocktail is used for the protection of intact, active cellular proteins from degradation by endogenous proteases. During the Simply add 10µL of concentrated cocktail per 1mL of lysis buffer to ensure complete protection of the resulting protein extract.

Properties:

- Appearance : Colorless solution
- Clarity : Clear and free of particles
- Suitability test : This reagent has been tested and is suitable for use

Storage conditions:

Protease Inhibitor Cocktail has to be stored at 2 - 8° C. Under recommended condition, the reagent is stable for 12 months.

Composition: The protease inhibitor cocktail contains the following individual components:

Protease Inhibitor	Targeted Protease Family	Type of inhibition	Concentration (100X in 95% DMSO)
AEBSF-HCl	Serine protease	Irreversible	100mM
Aprotinin	Serine protease	Reversible	80µM
Bestatin	Amino-peptidases	Reversible	5mM
E-64	Cysteine proteases	Irreversible	1.5mM
Leupeptin	Serine and Cysteine proteases	Reversible	2mM
Pepstatin A	Aspartic acid proteases	Reversible	1mM

Warning and Precautions

Not for Medicinal Use. Read the SDS carefully before beginning the protocol. Wear protective gloves/protective clothing/eye protection/face protection. Follow good clinical laboratory practices while handling clinical samples. Standard precautions should be followed as per established guidelines. Safety guidelines may be referred in safety data sheets of the product.

Performance and Evaluation

Performance of the solution is expected when the solution is stored at recommended temperature and within the expiry period.

Safety Information

The Protease inhibitor Cocktail is for laboratory use only, not for drug, household or other uses. Take appropriate laboratory safety measures and wear gloves and safety goggles when handling. Not compatible with disinfecting agents containing bleach. Please refer the Safety Data Sheet (SDS) for information regarding hazards and safe handling practices

Technical Assistance

At HiMedia we pride ourselves on the quality and availability of our technical support. For any kind of technical assistance, mail at mb@himedialabs.com.



Storage temperature



Do not use if package is damaged



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Disclaimer :

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