Protease inhibitors 50×Cocktail

AO-03-G2006-250UL

Product Information

Product Name	Cat. No.	Spec.
50×Cocktail Protease Inhibitor	AO-03-G2006-250UL	250 μL

Product Description/Introduction

The product 50×Cocktail is a mixed protease inhibitor containing various broad-spectrum protease inhibitors, including AEBSF, Aprotinin, Bestatin, E-64, Leupeptin, Pepstatin A, etc. The solvent used is DMSO. Separate EDTA is added to the product for selective use.

The various components contained in this product can effectively inhibit the activity of various proteases in animal, plant, yeast, and bacterial samples,whose inhibition constant is similar to that of PMSF and DFP.It can effectively inhibit proteases such as trypsin, chymotrypsin, plasmin, kallikrein, and thrombin.

As a substitute for PMSF and DFP, AEBSF has lower toxicity, better water solubility, and better stability in aqueous solutions. Aprotinin is a competitive reversible inhibitor of serine proteases. Bestatin is a reversible inhibitor of aminopeptidase. E64 is an irreversible inhibitor of cysteine protease. Leupeptin is a reversible inhibitor of serine and cysteine proteases. Pepstatin A exhibits effective inhibitory effects on aspartic proteases such as proteins, proteases D and E. EDTA can inhibit metalloproteinases.

This product is suitable for protein extraction from various biological samples (such as animal tissues/cells, plant tissues, bacteria, yeast, etc.) and is compatible with subsequent protein quantification testing, immunoblotting experiments (such as WB, Co IP, pull-down), etc. Diluted 50 times, 250 μ L of mixed protease inhibitor can be used to prepare 12.5 mL of lysis buffer, and 125 μ L of EDTA can be used to prepare 12.5 mL of lysis buffer.

Storage and Shipping Conditions

Ship with dry ice. Store at -20°C, valid for 12 months.

Product Components

Component Number	Component	G2006-250UL
G2006-1	50×Cocktail	250 μL
G2006-2	0.5M EDTA	125 μL
Manual		One copy

Assay Protocol/Procedures

This product is 50×concentrated solution. 20 μL of concentrated solution is added to 1 mL of protein lysis solution to ensure complete protection for protein extracts. It must be added before use and cannot be stored to prevent invalidation. At the same time, we provide protein lysis reagents (G2002, G2033).

Note

1. This product is a highly concentrated solution. If crystallization occurs, it can be used normally after thorough dissolution and mixing.
2. The protease content varies in different samples, with a recommended standard dosage of 1:50. If the protease content in the sample is high, the concentration of inhibitor can be appropriately increased.
3. For your safety and health, please wear safety glasses, gloves, or protective clothing.

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