

Protease Inhibitor Cocktail for bacterial cell extracts (100 X in DMSO)

Product description

Under stable environmental conditions, endogenous protein production and degradation are in equilibrium, so their cellular level is stable.

Cellular crude extracts contain many endogenous enzymes, such as phosphatases and proteases, that degrade the proteins in the extract. When proteins are extracted from cells and tissues in vitro, protein production almost stops and degradation increases. The best way to increase intact protein production is to add inhibitors of those enzymes that are known to be present.

Protease Inhibitor Cocktail for bacterial cell extracts (100 X in DMSO) is used in bacterial extracts to improve protein stability. This Cocktail acts as an inhibition of proteases that degrade non-phosphorylated or phosphorylated protein substrates.

The Protease Inhibitor Cocktail contains individual components, including AEBSF, Bestatin, E-64, and Pepstatin A, which have broad-spectrum specific inhibitory properties against cysteine, aminopeptidase, serine, aspartic acid, and metalloproteases. This protease inhibitor, Cocktail, has been optimized and tested with bacterial extracts. The protease inhibitor Cocktail solvent is DMSO and is available as a ready-to-use solution.

Tube	Catalo g No.	Product Name	Summary	Targets	CAS Number	Smiles
A (100X in DMSO)	A2573	AEBSF. HCl	Serine protease inhibitors	Proteases Se rine Protease	30827-99-7	C1=CC(=CC=C1CCN)S(=O)(=O)F.Cl
	A2575	Bestatin	Aminopep tidase inhibitors	Proteases A minopeptida se	58970-76-6	CC(C)CC(C(=O)O)NC(=O)C(C(CC1=CC=CC=C1)N)O
	A2576	E-64	Cysteine protease inhibitors	Proteases Ca thepsin	66701-25-5	CC(C)CC(C(=O)NCCCCN=C(N)N)NC(=O)C1C(O1)C(=O)O

Components and storage conditions

	A2571	Pepstati n A	Aspartate protease inhibitors	Proteases Ot her Proteases	26305-03-3	CC(C)CC(C(CC(=O)O)O)NC(=O)C(C)NC(=O)CC(C (CC(C)C)NC(=O)C(C(C)C)NC(=O)C(C(C)C)NC(=O))CC(C)C)O				
B (100X in ddH2O)		EDTA, disodiu m salt, dihydrat e	Metallopr oteinase inhibitors	Proteases Metalloprote ase	6381-92-6					
Store at -20 °C for one year.										

How to use

Thaw at room temperature and then add Protease Inhibitor Cocktail to a solution sample (e.g., cell lysate or tissue extract) at 1:100 (v/v) before the experiment.

Notes

- 1. The protease inhibitors contained in this product are harmful to the human body, and attention should be paid to avoid direct contact with the human body during experimental operations.
- 2. After receiving this product, it can be appropriately aliquoted and stored at -20°C to avoid repeated freezethaw, and added to the lysate when it is taken out when used.
- **3.** After mixing the protease inhibitor mixture and lysate, proceed to the next step of the experiment as soon as possible, and it is not suitable to prepare and freeze for subsequent use.
- 4. This product is for scientific purposes only.

