

## Protease and Phosphatase Inhibitor Cocktail, MS-safe (10x)

## Chemical Properties

CAS No. :

Formula:

Molecular Weight:

Storage: -20°C for 1 year  
Actual storage temperature shall be subject to the COA.

## Biological Description

## Description

The production and breakdown of intracellular proteins is in dynamic equilibrium under stable environmental conditions and when proteins are extracted from cells and tissues in vitro, crude cell extracts contain many endogenous enzymes that are capable of degrading the target proteins, e.g. phosphatases and proteases. These enzymes are released from the cells or are activated, leading to the breakdown of the target protein and affecting the results of the analysis. Therefore, adding appropriate inhibitors of proteases, phosphatases and other enzymes to the extracts is an effective way to prevent protein degradation and de-modification.

TargetMol Protease & Phosphatase Inhibitor Cocktail (MS-safe), with ddH<sub>2</sub>O as solvent, is a mixture of 4 protease inhibitors and 4 phosphatase inhibitors, which can efficiently inhibit a variety of proteases including serine, cysteine proteases and aminopeptidases, as well as a variety of phosphatases including acidic, alkaline, and serine/threonine phosphatases in protein extracts. This product does not contain AEBSF, thus avoiding the mass spectrometry peak drift it may cause. Therefore, protein samples extracted with this product can be used for Mass Spectrometry (MS) detection and analysis, including proteomics.

TargetMol Protease & Phosphatase Inhibitor Cocktail (MS-safe) protects your proteins conveniently and reliably by efficiently inhibiting a wide range of proteases and phosphatases from animal, plant, bacterial, yeast, and fungal samples. It is suitable for extracting proteins from a wide range of tissues and cells to obtain target proteins more efficiently.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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