

### ★ Storage

Store desiccated at 2-8°C.  
Protect from light. Hygroscopic.

### ★ Contents

- Product Manual
- PMSF

ALL PRODUCTS SOLD BY GenDEPOT ARE INTENDED FOR RESEARCH USE ONLY UNLESS OTHERWISE INDICATED. THIS PRODUCT IS NOT INTENDED FOR DIAGNOSTIC OR DRUG PURPOSE

### ★ Shipping Condition

Ship with ice pack.

### ★ Formular

$C_7H_7FO_2S$

### ★ M.W.

174.19 g/mol

### ★ Appearance

White to slightly off white crystalline powder.

### ★ Solubility

Soluble in DMSO or 100% Ethanol.

### ★ Introduction

PMSF is an inhibitor of serine proteases and acetylcholinesterase. It inhibits proteases such as chymotrypsin, trypsin, thrombin and thiol proteases such as papain.

PMSF inhibits serine proteases by sulfonating serine residues at the active site.

### ★ Procedure: 1M PMSF Stock Solution

1. Weigh 1.74g PMSF (CAS 329-98-6, MW 174.19 g/mol)
2. Add DMSO to a final volume of 100 ml. Dissolve completely.
3. Stocks may be kept at -20 °C for up to 6 months.
4. PMSF is used at a final concentration of 0.1-1.0 mM.

### ★ Tips

- PMSF is hygroscopic and is highly unstable in aqueous solutions. A typical working solution of PMSF is 1mM.

- PMSF is an anti-protease! Do not allow to come into contact with skin.

- PMSF is inactivated in aqueous solutions. The rate of inactivation increases with increasing pH and is faster at 25 °C. than at 4°C. The half-life of a 10mM aqueous solution of PMSF is ~35 minutes at pH 8.0. This short half-life means that aqueous solutions of PMSF can be safely discarded after they have been rendered alkaline (pH > 8.6) and stored for several hours at room temperature.

### ★ Related Products

Product Name	Cat No
Albumin, (IgG, Fattu Acid and Protease Free)	A0100
AffiSelect Cox IV Loading Control Antibody	A0017
AffiSelect GAPDH Loading Control Antibody, 100ug	A0039
DTT, 1,4-Dithiothreitol, Diakone free	D0505
AffiSelect a-Tubulin Loading Control Antibody, 100ug	A0050
NP-40 Lysis Buffer (2X)	N1200
Xpert Protease Inhibitor Cocktail Solution (100X)	P3100
AEBSF	P3401
Leupeptin, Hemisulfate Salt	P3407
ProsiBlue Gel Staining Solution	P7300
Protein Marker, Unstained, Broad Range (14.4-116 kDa)	P8501
Xpert Prestained Protein Marker (6.5-240 kDa)	P8502
Xpert 2 Prestained Protein Marker (10-240 kDa)	P8503
TBS Buffer, 20X, pH 7.4	T8054
Goat anti-Rabbit IgG(H+L)-HRP, 1mg/ml	SA002
Rabbit anti-Goat IgG(H+L)-HRP, 1mg/ml	SA007
West-Q Pico Dura ECL Solution	W3653
West-Q Femto ECL Solution	W3700