

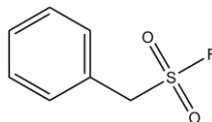
## Product: PMSF

**ALTERNATE NAMES:** Phenylmethylsulfonyl fluoride; Phenylmethanesulfonyl fluoride; Benzylsulfonyl fluoride; Benzenemethanesulfonyl fluoride

**CATALOG #:** 1548-5, 25

**AMOUNT:** 5 g, 25 g

**STRUCTURE:**



**MOLECULAR FORMULA:** C<sub>7</sub>H<sub>7</sub>FO<sub>2</sub>S

**MOLECULAR WEIGHT:** 174.2

**CAS NUMBER:** 329-98-6

**APPEARANCE:** White crystalline solid

**PURITY:** ≥99%

**SOLUBILITY:** 10% in pure ethanol

**STORAGE CONDITIONS:** Store at +4°C or -20°C.

**DESCRIPTION:** Irreversible inhibitor of serine proteases (such as thrombin, trypsin and chymotrypsin) and mammalian acetylcholinesterase. It causes sulfonylation of the active-site serine residues. Inhibits cysteine proteases like papain (reversible by DTT treatment). Also inhibits internucleosomal DNA fragmentation in immature thymocytes.

**REFERENCES:**

1. Deutsch, D. G. and Chin, S. A. (1993) *Biochem. Pharmacol.* 46:791.
2. James, G.T. (1978) *Anal. Biochem.* 86:574.

**CAUTION:** Irritant

### RELATED PRODUCTS:

- AEBSF, HCl (Cat. No. 1644-200, 1G)
- Aprotinin (Cat. No. 4690-5, 100, 1000)
- Calyculin A (Cat. No. 1562-025)
- BCA Protein Quantitation Kit (Cat. No. K812-1000)
- Bradford Protein Quantitation Kit (Cat. No. K810-1000)
- E-64 (Cat. No. 1739-5, 25)
- EZBlock™ Phosphatase Inhibitor Cocktail I (Cat. No. K273-1, 1EA)
- EZBlock™ Phosphatase Inhibitor Cocktail II (Cat. No. K275-1, 1EA)
- EZBlock™ Phosphatase Inhibitor Cocktail III (Cat. No. K276-1, 1EA)
- EZBlock™ Phosphatase Inhibitor Cocktail IV (Cat. No. K282-1, 1EA)
- EZBlock™ Protease Inhibitor Cocktail EDTA-Free (Cat. No. K272-1, 5, 1EA)
- EZBlock™ Protease Inhibitor Cocktail II (Cat. No. K277-1EA)
- EZBlock™ Protease Inhibitor Cocktail III (Cat. No. K278-1EA)
- EZBlock™ Protease Inhibitor Cocktail IV (Cat. No. K279-1, 1EA)
- EZBlock™ Universal Protease and Phosphatase Inhibitor Cocktail (Cat. No. K283-1, 1EA)
- EZLys™ Bacterial Protein Extraction Reagent (Cat. No. 8001-100, 500)
- Leupeptin, Hemisulfate (Cat. No. 1648-25, 50, 100)
- EZLys™ Lysozyme, Human (Cat. No. 8005-1G, 5G)
- Nafamostat Mesylate (Cat. No. 1760-10, 50)
- Okadaic Acid (Cat. No. 1543-025)
- Okadaic Acid, Ammonium Salt (Cat. No. 1766-025)
- Okadaic Acid, Potassium Salt (Cat. No. 1765-025)
- Okadaic Acid, Sodium Salt (Cat. No. 1764-025)
- PMSF (Cat. No. 1548-5)
- Pepstatin A (Cat. No. 1732-25, 100)
- Protease Inhibitor Cocktail (Cat. No. K271-500)

**FOR RESEARCH USE ONLY! Not to be used in humans.**