**PRODUCT:** MDL 28170

**ALTERNATE NAME:** Z-Val-Phe-CHO; Carbobenzoxy-valinyl-phenylalaninal; Calpain Inhibitor III

**CATALOG #:** 2195-10, 50

**AMOUNT:** 10 mg, 50 mg

**STRUCTURE:**

![Structure diagram]

**MOLECULAR FORMULA:** C_{22}H_{26}N_{2}O_{4}

**MOLECULAR WEIGHT:** 382.45

**CAS NUMBER:** 88191-84-8

**APPEARANCE:** White solid

**SOLUBILITY:** DMSO (200 mM)

**PURITY:** ≥ 95% by HPLC

**STORAGE:** Store at -20 °C. Protect from air and moisture

**DESCRIPTION:** A potent, cell-permeable, and selective inhibitor of calpain and cathepsin B (K values are 10 and 25 nM respectively). MDL 28170 does not inhibit trypsin-like serine proteases. Rapidly penetrates the blood-brain barrier following systemic administration and displays neuroprotective effects in vivo. Modulates the formation of Aβ formation by inhibiting the formation of intermediate Aβ_{46} and protecting Aβ from degradation.


**RELATED PRODUCTS:**
- Bafilomycin A1 (Cat. No. 1829-50, 250)
- Calpain Activity Assay Kit (Cat. No. K240-100)
- Calpain 1 Antibody (Cat. No. 3189-100)
- Calpain 1 Blocking Peptide (Cat. No. 3189BP-50)
- Calpain 2 Antibody (Cat. No. 3372-100)
- Calpain 2 Blocking Peptide (Cat. No. 3372BP-50)
- Calpain, Human, Active (Cat. No. 1134-100)
- Calpain Inhibitor I, ALLN (Cat. No. 1834-5, 25)
- Calpain Inhibitor II, ALLM (Cat. No. 1835-5, 25)
- Calpain Inhibitor Z-LLY-FMK (Cat. No. 1125-20C)
- PD 150, 606 (Cat. No. 1906-5, 25)
- Suc-Leu-Leu-Val-Tyr-AMC (Cat. No. 1833-5)

**HANDLING:** Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.

**USAGE:** FOR RESEARCH CH USE ONLY! Not to be used in humans