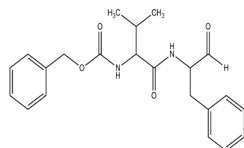


**PRODUCT: MDL 28170****ALTERNATE NAME:** Z-Val-Phe-CHO; Carbobenzoxy-valinyl-phenylalaninal; Calpain Inhibitor III**CATALOG #:** 2195-10, 50**AMOUNT:** 10 mg, 50 mg**STRUCTURE:****MOLECULAR FORMULA:** C<sub>22</sub>H<sub>26</sub>N<sub>2</sub>O<sub>4</sub>**MOLECULAR WEIGHT:** 382.45**CAS NUMBER:** 88191-84-8**APPEARANCE:** 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<sub>i</sub> 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<sub>46</sub> and protecting Aβ from degradation. Calpain inhibitors may interfere with proteolytic processing of coronavirus S protein thereby preventing virus entry.

**REFERENCE:** Dong, Y., *et al.* (2006). *The FASEB Journal* **20**, 331-333.**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**)

