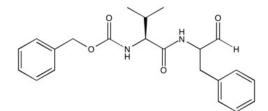
# **Tribioscience**

## MDL-28170 (Z-Val-Phe-CHO), Calpain inhibitor

Catalog	Unit
TBI3005-5MG	5 mg
TBI3005-25MG	25 mg

## **Product Details**

Formal Name: N-Benzyloxycarbonylvalylphenylalaninal Alternate Names: Z-Val-Phe-CHO; Calpain Inhibitor III Molecular Formula:  $C_{22}H_{26}N_2O_4$ Formula Weight: 382.40 CAS Number: 88191-84-8 Purity: >98% Formulation: powder Solubility: Soluble in DMSO (up to 75 mg/ml) Storage: -20°C Stability:  $\geq$  1 year.



#### **Applications**

Calpain inhibitor

#### **Functions**

A potent and selective cell permeable calpain inhibitor. Inhibits oxidative damage-induced apoptosis in PC12 cells and capsaicin-induced apoptosis in dorsal root ganglion neurons. It penetrates the blood-brain barrier and inhibits brain cysteine protease activity after systemic administration, ameliorating brain damage in a gerbil model of global ischemia. Displays neuroprotective effects in neurotrama rodent models. Calpain I Ki = 8 nM; Cathepsin B Ki = 24 nM in isolated enzyme assays. IC50 =  $0.3 \mu$ M in intact cell assay.

### **Application Procedures**

First dissolved in DMSO (up to 75 mg/ml), then diluted to aqueous buffer. Solutions in DMSO may be stored at  $-20^{\circ}$ C for up to 1 month.

For research use only.