MDL-28170

Calpain and cathepsin inhibitor

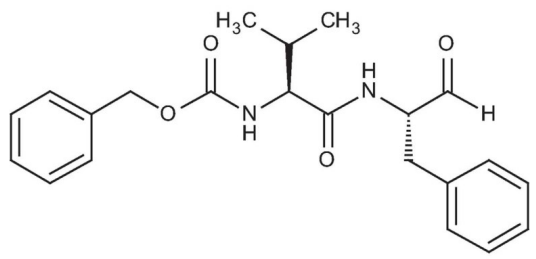
A potent and selective cell permeable calpain inhibitor. Inhibits oxidative damage-induced apoptosis in PC12 cells and capsaicin-induced apoptosis in dorsal root ganglion neurons. It protects against anoxia in rat optic nerves and reduces neuronal damage in an animal model of global cerebral ischemia(50 mg/kg). In isolated hippocampal pyramidal neurons, it inhibits Ca^{2+}-induced suppression of neurite outgrowth (complete inhibition at 20 μM). Calpain I K_i = 8 nM; Cathepsin B *Ki* = 24 nM in isolated enzyme assays. IC*50* = 0.3 μM in intact cell assay.

Citations: 6 View Online »

Ordering Information Order Online »

BML-PI130-0050	50mg

Manuals, SDS & CofA View Online »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Handling & Storage

Use/Stability	As indicated on product label or CoA when stored as recommended.
Long Term Storage	-20°C
Shipping	Blue Ice

Regulatory Status

RUO - Research Use Only

Product Details

Alternative Name	N-Benzyloxycarbonylvalylphenylalaninal
Appearance	White solid.
CAS	88191-84-8
Formula	$C_{22}H_{26}N_2O_4$
MW	382.5
Purity	≥98% (HPLC)
Sequence	Z-Val-Phe-CHO
Solubility	Soluble in DMSO (200mM).

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