Calpeptin

Cat. No. 03-34-0051

| Size  | 5 mg | 25 mg | 100 mg |

Synonym:  Benzyloxy carbonyl dipeptidyl Aldehyde

Description: A cell-permeable calpain inhibitor. Inactivates calpain I (ID$_{50}$ = 52 nM), calpain II (ID$_{50}$ = 34 nM), and papain (ID$_{50}$ = 138 nM). Promotes neurite elongation in differentiating PC12 cells. Prevents Ca$^{2+}$-ionophore induced degradation of actin binding protein and P$_{235}$ in platelets. Inhibits myosin light chain phosphorylation in platelets stimulated by collagen, ionomycin, or thrombin. Inhibits the growth of estrogen receptor positive breast cancer cells.

Form: Lyophilized solid. Packaged under an inert gas.

CAS Number: 117591-20-5

Molecular Weight: 362.5

Molecular Formula: C$_{20}$H$_{30}$N$_{2}$O$_{4}$

Sequence: Z-Leu-Nle-CHO

Purity: $\geq$95% by TLC

Solubility: DMF or DMSO. May dissolve in a minimal amount of DMF or DMSO then add H$_{2}$O, buffer or medium just prior to use.

Storage: Freezer (-20°C). Protect from moisture. Following reconstitution, aliquot and freeze (-20°C). This product is stable for 3 years as supplied. Stock solutions are stable for 2 months at -20°C.


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