Calpain Inhibitor I, ALLN


CATALOG #: 1834-5, 25

AMOUNT: 5 mg, 25

STRUCTURE:

MOLECULAR FORMULA: C_{20}H_{37}N_{5}O_{4}

MOLECULAR WEIGHT: 383.54

CAS NUMBER: 110444-82-1

APPEARANCE: White powder

SOLUBILITY: DMSO (25 mg/ml) or EtOH

PURITY: ≥95% by HPLC

STORAGE: Store at -20 °C

DESCRIPTION: A cell-permeable inhibitor of calpain I (Kᵢ = 190 nM), calpain II (Kᵢ = 220 nM), cathepsin B (Kᵢ = 150 nM), and cathepsin L (Kᵢ = 0.5 nM). Inhibits neutral cysteine proteases and the proteasome (Kᵢ = 6 µM). Can initiate apoptosis in HL-60 cells but blocks dexamethasone-induced apoptosis in thymocytes and cycloheximide-induced apoptosis in metamyelocytes. Inhibits cyclin B degradation and arrests the cell cycle at G1/S and at meta-/anaphase.

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

FOR RESEARCH USE ONLY! Not to be used on humans.

RELATED PRODUCTS:
- 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 II, ALLM (Cat. No. 1835-5, 25)
- Calpain Inhibitor Z-LLY-FMK (Cat. No. 1125-20C)
- Suc-Leu-Leu-Val-Tyr-AMC (Cat. No. 1833-5)