

Calpain Inhibitor I, ALLN

Cat. No. CEI-0414

Lot. No. (See product label)

Introduction

Description

A cell-permeable inhibitor of calpain I ($K_i = 190$ nM), calpain II ($K_i = 220$ nM), cathepsin B ($K_i = 150$ nM), and cathepsin L ($K_i = 0.5$ nM). Inhibits neutral cysteine proteases and the proteasome ($K_i = 6$ μ M). 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.

Synonyms

Ac-LLnL-CHO, MG-101, N-Acetyl-L-leucyl-L-leucyl-L-norleucinal, N-Acetyl-Leu-Leu-Nle-al

Product Information

Appearance

White to off-white solid

CAS No.

110044-82-1

Molecular Formula

$C_{20}H_{37}N_3O_4$

Molecular Weight

692.71

Purity

>98%

Targets

calpain I, calpain II, cathepsin B, cathepsin L

Solubility

H₂O (50 mg/ml)

Storage and Shipping Information

Storage

RT

Shipping Conditions

RT