Creative Enzymes®

# Calpain Inhibitor I, ALLN

*Cat. No. CEI-0414*

*Lot. No.* (See product label)

## Introduction

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|---|---|
| ***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. |
| ***Synonyms*** | Ac-LLnL-CHO, MG-101, N-Acetyl-L-leucyl-L-leucyl-L-norleucinal, N-Acetyl-Leu-Leu-Nle-al |

## Product Information

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| ***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*** | $H_2O$ (50 mg/ml) |

## Storage and Shipping Information

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| ***Storage*** | RT |
| ***Shipping Conditions*** | RT |