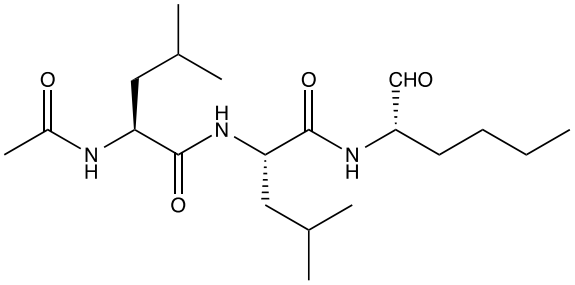
Catalog #10-3024

ALLN

110044-82-1

Ac-Leu-Leu-Nle-CHO; Ac-LL-norleucinal

Lot # X101712



Cell-permeable, peptide aldehyde inhibitor of calpain I (K_i=190 nM), calpain II (K_i=150 nM), cathepsin L (K_i=0.5 nM) and other neutral cysteine proteases.[1] Inhibits cell cycle progression at G1/S and metaphase/anaphase in CHO cells by inhibiting cyclin B degradation.[2] Inhibits proteolytic degradation of IκBα and IκBβ in RAW macrophages induced with LPS.[3] Blocks AIF-mediated necroptosis.[4] Cell permeable.

1) Sasaki *et al.* (1990), *Inhibitory effect of di- and tripeptidyl aldehydes on calpains and cathepsins;* J.Enzyme Inhib. **3** 195
2) Sherwood *et al.* (1993) *In vivo inhibition of cyclin B degradation and induction of cell-cycle arrest in mammalian cells by the neutral cysteine protease inhibitor N-acetylleucylleucylnorleucinal*; Proc.Natl.Acad.Sci USA **90** 3353
3) Schow and Joly (1997), *N-acetyl-leucinyl-leucinyl-norleucinal inhibits lipopolysaccharide-induced NF-kappaB activation and prevents TNF and IL-6 synthesis in vivo;* Cell Immunol. **175** 199
4) Shang *et al.* (2014) *Calpain: a molecule to induce AIF-mediated necroptosis in RGC-5 following elevated hydrostatic pressure; BMC Neurosci.* **15** 63

PHYSICAL DATA

Molecular Weight:	383.53
Molecular Formula:	$C_{20}H_{37}N_3O_4$
Purity:	>98% (HPLC) NMR: (Conforms)
Solubility:	DMSO (10 mg/mL) and ethanol (5 mg/mL)
Physical Description:	White solid
Storage and Stability:	Store as supplied at -20°C for up to 1 year from the date of purchase. Solutions in DMSO or ethanol may be stored at -20°C for up to 1 month.

Focus Biomolecules LLC 400 Davis Drive, Suite 600 Plymouth Meeting PA 19462

www.focusbiomolecules.com