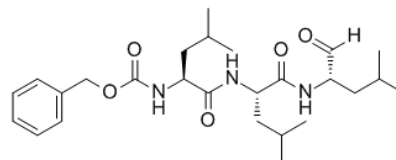


Product Name : MG-132
Cat. No. : PC-43439
CAS No. : 133407-82-6
Molecular Formula : C₂₆H₄₁N₃O₅
Molecular Weight : 475.62
Target : Proteasome
Solubility : 10 mM in DMSO



Biological Activity

MG-132 (Z-Leu-leu-leu-al, ZLLLal) is a potent, reversible, and cell-permeable **proteasome** inhibitor with IC₅₀ of 0.1 and 1.2 μM for the inhibition of proteasome and calpain, respectively.

MG-132 induces neurite outgrowth in PC12 cells with optimal concentrations of 20 nM.

MG-132 inhibits autolytic activation of calpain in rabbit erythrocytes at 100 μM; demonstrates in vivo antitumor activity.

References

Tsubuki S, et al. *J Biochem.* 1996 Mar;119(3):572-6.

Tsubuki S, et al. *Biochem Biophys Res Commun.* 1993 Nov 15;196(3):1195-201.

Palombella VJ, et al. *Cell.* 1994 Sep 9;78(5):773-85.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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