



LKT Laboratories, Inc.

MG-132

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Product Information

Product ID M2400

CAS No. 133407-82-6

Chemical Name

Synonym MG-132

Formula $C_{26}H_{41}N_3O_5$

Formula Wt. 475.62

Melting Point

Purity $\geq 98\%$

Solubility DMSO 90 mg/mL (189.22 mM)

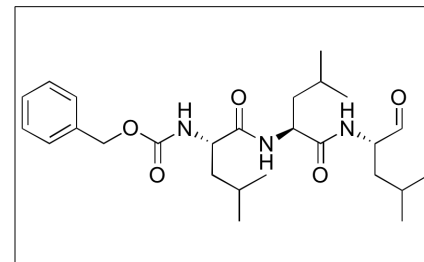
Ethanol 25 mg/mL (52.56 mM)

Water Insoluble

Store Temp -20°C

Ship Temp Ambient

Description MG-132 is a proteasome inhibitor that exhibits anti-fibrotic, anti-inflammatory, and anti-osteoarthritic activities. In renal interstitial fibroblasts, MG-132 inhibits proliferation and induces apoptosis by activating p53, p21, caspase 3, and Bax. MG-132 also inhibits skeletal muscle atrophy in animal models of chronic obstructive pulmonary disorder (COPD) by preventing degradation of I κ B and activation of NF- κ B. In other animal models, this compound delays progression of osteoarthritis by inhibiting inflammation in cartilage and synovial tissue.



Bulk quantities available upon request

Product ID	Size
M2400	5 mg
M2400	25 mg

References Zhu B, Jin Y, Han L, et al. Proteasome inhibitor inhibits proliferation and induces apoptosis in renal interstitial fibroblasts. *Pharmacol Rep.* 2013;65(5):1357-65. PMID: 24399732.

Ma BM, Liu ZH, Liang ZK, et al. The proteasome inhibitor MG132 attenuates skeletal muscle atrophy in a rat model of chronic obstructive pulmonary disease. *Zhonghua Jie He He Hu Xi Za Zhi.* 2013 Jun;36(6):441-6. PMID: 24103208.

Quan R, Huang Z, Yue Z, et al. Effects of a proteasome inhibitor on the NF- κ B signalling pathway in experimental osteoarthritis. *Scand J Rheumatol.* 2013;42(5):400-7. PMID: 23826657.

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.