

Product Information

Product ID M2400

CAS No. 133407-82-6

Chemical Name

Synonym MG-132

Formula C₂₆H₄₁N₃O₅

Formula Wt. 475.62

Melting Point

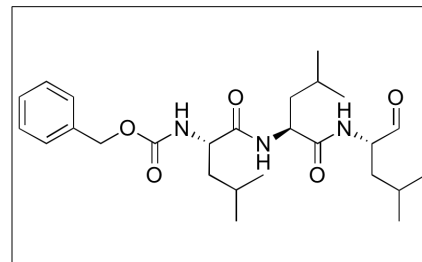
Purity $\geq 98\%$

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.



Pricing and Availability

Bulk quantities available upon request

Product ID	Size	List Price
M2400	5 mg	\$136.70
M2400	25 mg	\$519.60

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.