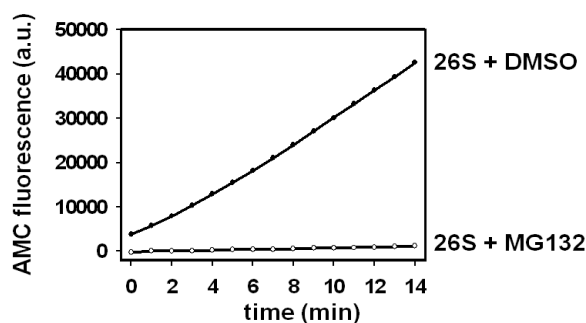


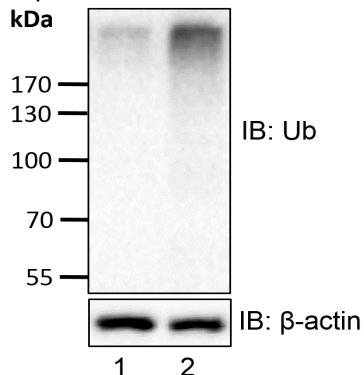
MG-132

Cat. # F1100, F1101, F1102

Also Known as: MG132, Z-LLL-al, Z-Leu-Leu-Leu-CHO
Formula: C₂₆H₄₁N₃O₅
MW: 475.6 Da
CAS No.: 133407-82-6
Source: Synthetic
Form: Lyophilized Powder
Solubility: Soluble in DMSO
Concentration: N/A
Quality Assurance: >98% by HPLC and NMR



100 nM bovine 26S proteasome (Cat. # A1200) was incubated with DMSO or with 10 μM MG-132 (Cat. # F1100) for 10 min at 37 °C in 20 mM Tris, pH 7.1, 50 mM NaCl, 2 mM ATP, 5 mM MgCl₂, 2 mM bME and 10% glycerol. The proteasome was then diluted 10X into 50 μM SUC-LLVY-AMC (Cat. # G1100) in a buffer containing 20 mM Tris, pH 7.1, 2 mM bME. The released AMC fluorescence was monitored by a plate reader.



Equal amount of whole cell lysates prepared from DMSO (lane 1) or 20 μM MG-132 (lane 2)-treated HEK293T cells were separated by SDS-PAGE and immunoblotted with an anti-Ub antibody. Cells were treated with DMSO or MG-132 for 4 hours.

Description: MG-132 is a reversible proteasome inhibitor that belongs to the family known as peptide aldehydes. MG-132 is cell permeable and can be used to treat various mammalian cells to block proteasome activities. MG-132 can be dissolved in DMSO for stock solution up to 100 mM. The typical concentrations for cell culture use are 1-10 μM. For in vitro use, the typical concentrations are 50-100 μM.



Storage: Eligible for room temperature shipping. Store at -20°C upon receiving; protect from air and light.

Note: We recommend to prepare fresh MG132 stock solution in DMSO for both in vitro and cell culture assays.

Literature:

1. Wilk S, *et al* . (1993) *Enzyme Protein* 47(4 – 6), 306 – 313.
2. Bush DT, *et al* . (1997) *J Biol Chem* 272(14), 9086 – 9092.
3. Myung J, *et al* . (2001 *Med Res Rev* 21(4), 245 – 273.

