UBPBio
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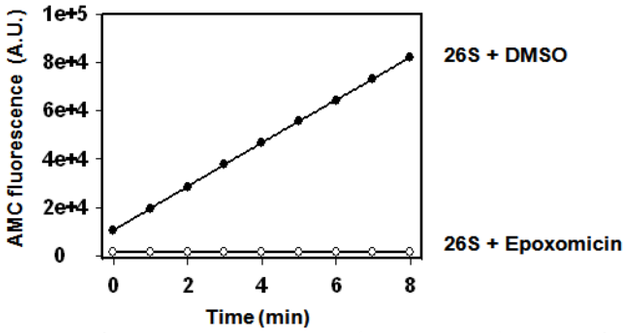
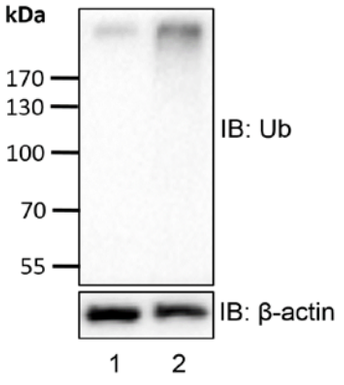
Epoxomicin

Cat. # F1400-1, F1400-5, F1400-25

Also Known as: BU4061T,BU-4061T
Formula: $C_{28}H_{50}N_4O_7$
MW: 554.72 Da
CAS No.: 134381-21-8
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 Epoxomicin (Cat. # F1400) for 10 min at 37 °C in 20 mM Tris, pH 7.1, 50 mM NaCl, 2 mM ATP, 5 mM $MgCl_2$, 2 mM βME 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 βME. The released AMC fluorescence was monitored by a plate reader.



Equal amount of whole cell lysates prepared from DMSO (lane 1) or 20 µM Epoxomicin (lane 2)-treated HeLa cells were separated by SDS-PAGE and immunoblotted with an anti-Ub antibody. HEK293TCells were treated with DMSO or Epoxomicin for 4 hours.

Description: Epoxomicin, originally isolated from Actinomyces sp., is a cell-permeable, potent, selective and irreversible proteasome inhibitor. It inhibits chymotrypsin-like, trypsin-like and caspase-like activities of the proteasome.

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Storage: Eligible for room temperature shipping. Store at -80°C upon receiving; avoid multiple freeze-thaw cycles after dissolving in DMSO.

Literature:

1. M. Hanada, *et al* . (1992) J. Antibiot., 45, 1746
2. L. Meng, *et al* . (1999) PNAS, 96, 10403
3. K.B. Kim, *et al* . Bioorg. (1999) Med. Chem. Lett., 9, 3335