

IU1

Cat. # F4100, F4101

Also Known as: 1-[1-(4-Fluorophenyl)-2,5-dimethyl-1H-pyrrol-3-yl]-2-(1-pyrrolidinyl)ethanone
Formula: C₁₈H₂₁FN₂O
MW: 300.4 Da
CAS No.: 314245-33-5
Source: Synthetic
Form: Lyophilized powder
Solubility: Soluble in DMSO
Concentration: N/A
Quality Assurance: >98% by HPLC and NMR



IB: Ub

IB: β-actin

1 2

Equal amount of whole cell lysates prepared from DMSO (lane 1) or 75 μM IU1 (lane 2)-treated HeLa cells were separated by SDS-PAGE and immunoblotted with an anti-Ub antibody. HEK293T cells were treated with DMSO or IU1 for 5 hours.

Description: IU1 is a reversible and specific inhibitor of proteasome-associating Usp14. It does not inhibit other deubiquitinating enzymes of the 26S proteasome. It partially inhibits the ubiquitin chain trimming activity of the 26S proteasome, which could function to stimulate the degradation of some proteasomal substrate.

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

Note: Briefly spin the tube before removing the cap.

Literature: Lee BH et al. (2010) Nature, 467, 179-184