Web: www.taiclone.com
Tel: +886-2-2735-9682
Email: order@taiclone.com

PYR-41

Catalog No: tcsc1724

Available Sizes

Size: 5mg

Size: 10mg

Size: 50mg

Size: 100mg

Specifications

CAS No:
418805-02-4

Formula:
$C_{17}H_{13}N_3O_7$

Pathway:
Metabolic Enzyme/Protease

Target:
E1/E2/E3 Enzyme

Purity / Grade:
>98%

Solubility:
DMSO : ≥ 46 mg/mL (123.89 mM)

Observed Molecular Weight:
371.3

Product Description

PYR-41 is a specific and cell permeable inhibitor of ubiquitin-activating enzyme **E1** with an **IC_{50}** of

Web: www.taiclone.com
Tel: +886-2-2735-9682
Email: order@taiclone.com

IC50 & Target: IC50:

In Vitro: PYR-41 increases total sumoylation in cells in addition to blocking ubiquitylation. PYR-41 attenuates cytokine-mediated nuclear factor-κB activation. PYR-41 also prevents the downstream ubiquitylation and proteasomal degradation of IκBα. Furthermore, PYR-41 inhibits degradation of p53 and activates the transcriptional activity of this tumor suppressor[1]. PYR-41 (50 μM) promotes accumulation of ubiquitinated proteins. PYR-41 causes a concentration-dependent (10-50 μM) decline in DUB activity in Z138 cells after 4 h. PYR-41 potently inhibits USP5 DUB activity, even at the lowest concentration (10 μM). PYR-41 potently (10-50 μM) inhibits the activity of various DUBs, determined to represent USP9x, USP5, USP14, UCH37 and UCH-L3. Co-treatment of Z138 cells with DTT and PYR-41 completely abolishes the accumulation of ubiquitinated proteins[2].