



PYR-41

Catalog No: tcsc1724

П	
	Ĺ

Available Sizes

Size: 5mg

Size: 10mg

Size: 50mg

Size: 100mg



Specifications

CAS No:

418805-02-4

Formula:

 $C_{17}^{H}_{13}^{N}_{3}^{O}_{7}^{O}$

Pathway:

Metabolic Enzyme/Protease

Target:

E1/E2/E3 Enzyme

Purity / Grade:

>98%

Solubility:

DMSO : \geq 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 ${f E1}$ with an ${f IC}_{f 50}$ of





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].

All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!