

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:

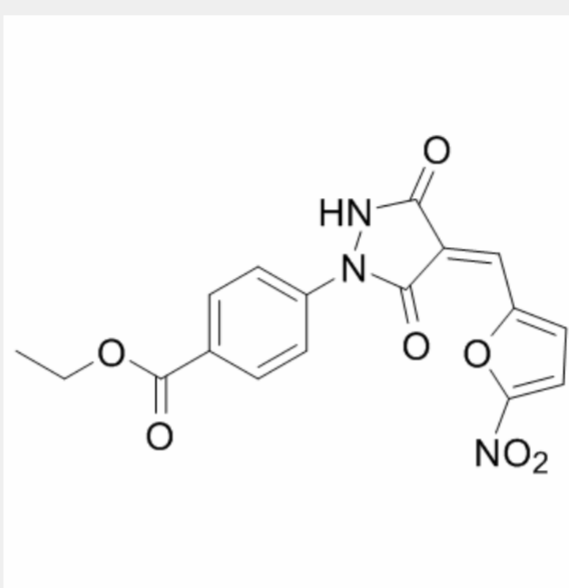
371.3

Product Description

PYR-41 is a specific and cell permeable inhibitor of ubiquitin-activating enzyme **E1** with an **IC₅₀** 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- κ B activation. PYR-41 also prevents the downstream ubiquitylation and proteasomal degradation of I κ B α . Furthermore, PYR-41 inhibits degradation of p53 and activates the transcriptional activity of this tumor suppressor^[1]. PYR-41 (50 μ M) promotes accumulation of ubiquitinated proteins. PYR-41 causes a concentration-dependent (10-50 μ M) decline in DUB activity in Z138 cells after 4 h. PYR-41 potently inhibits USP5 DUB activity, even at the lowest concentration (10 μ M). PYR-41 potently (10-50 μ M) 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].



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