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UPF 1069

Catalog No: tcsc1466

Available Sizes

Size: 10mg

Size: 50mg

Specifications

CAS No:
1048371-03-4

Formula:
$C_{17}H_{13}NO_3$

Pathway:
Epigenetics;Cell Cycle/DNA Damage

Target:
PARP;PARP

Purity / Grade:
>98%

Solubility:
DMSO : ≥ 100 mg/mL (358.05 mM)

Observed Molecular Weight:
279.29

Product Description

UPF 1069 is a **PARP** inhibitor, with **IC_{50}**s of 8 and 0.3 μM for PARP-1 and PARP-2, respectively.

IC50 & Target: IC50: 8 μM (PARP-1), 0.3 μM (PARP-2)[1][2]

In Vitro: UPF 1069 (Compound 55) is a PARP inhibitor, with IC_{50}s of 8 and 0.3 μM for PARP-1 and PARP-2, respectively[1]. UPF 1069 (1 μM) reduces the residual PARP activity by approximately 80% of PARP-1-deficient fibroblasts, but only slightly inhibits the enzymic

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activity in wild-type fibroblasts. UPF 1069 (0.1-1 μM) markedly enhances CA1 hippocampal damage. UPF 1069 (10 μM) also exacerbates oxygen-glucose deprivation (OGD) damage in organotypic hippocampal slices. However, UPF 1069 alleviates the damage cuased by OGD in mixed cortical cell cultures, shows a potent neuroprotective activity both at a concentration (1 μM) selectively acting on PARP-2 and at a concentration (10 μM) inhibiting both PARP-1 and PARP-2 activities[2].