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

T0070907

Catalog No: tcsc0462

Available Sizes

Size: 5mg

Size: 10mg

Size: 50mg

Size: 100mg

Specifications

CAS No:
313516-66-4

Formula:
$C_{12}H_8ClN_3O_3$

Pathway:
Cell Cycle/DNA Damage;Cell Cycle/DNA Damage

Target:
PPAR;RAD51

Purity / Grade:
>98%

Solubility:
DMSO : 10 mg/mL (36.02 mM; Need ultrasonic)

Observed Molecular Weight:
277.66

Product Description

T0070907 is a potent **PPARγ** antagonist and a potential **RAD51** inhibitor, with apparent $\mathbf{K_i}$ value of 1 nM towards PPARγ.

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IC50 & Target: Ki: 1 nM (PPARγ), 1.8 μM (PPARδ), 0.85 μM (PPARα)[4]

In Vitro: T0070907 (50 μM) pre-treatment impairs repair of IR-induced DNA DSBs in both ME-180 and SiHa cells treated with irradiated (4 Gy). T0070907 (0-50 μM) significantly decreases the levels of DNA-PKcs and RAD51 proteins in ME-180 and SiHa cells[1]. T0070907 (50 μM) treatment reduces the levels of α- and β-tubulin protein in a time-dependent manner, decreases the synthesis of DNA, and prevents the radiation-induced alterations in the cell cycle regulatory proteins of ME180 and SiHa cells[2]. T0070907 (10 μM) has cytotoxicity in an adipocyte-specific and PPARγ-independent manner. T0070907 increases oxidative stress in immature adipocytes[3]. T0070907 (1 μM) blocks the induction of adipogenesis by various treatments of the adipogenic cell line 3T3-L1. T0070907 covalently modifies PPAR on cysteine 313 in helix 3 of human PPAR 2[4].