

# 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:**

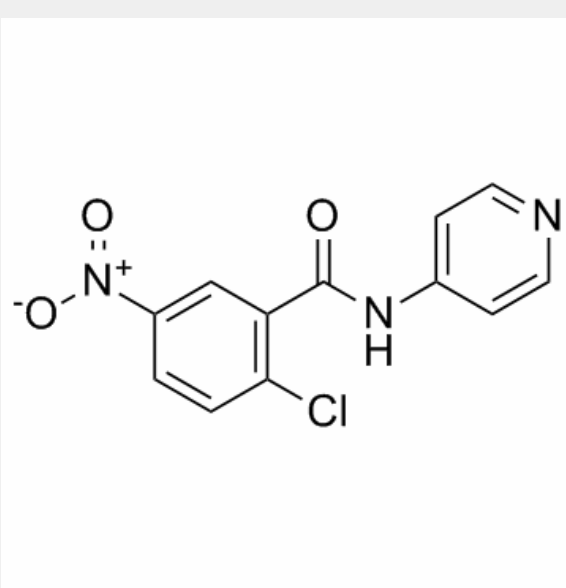
277.66

### Product Description

T0070907 is a potent **PPAR $\gamma$**  antagonist and a potential **RAD51** inhibitor, with apparent **K<sub>i</sub>** value of 1 nM towards PPAR $\gamma$ .

IC50 & Target: Ki: 1 nM (PPAR $\gamma$ ), 1.8  $\mu$ M (PPAR $\delta$ ), 0.85  $\mu$ M (PPAR $\alpha$ )<sup>[4]</sup>

***In Vitro:*** T0070907 (50  $\mu$ M) pre-treatment impairs repair of IR-induced DNA DSBs in both ME-180 and SiHa cells treated with irradiated (4 Gy). T0070907 (0-50  $\mu$ M) significantly decreases the levels of DNA-PKcs and RAD51 proteins in ME-180 and SiHa cells<sup>[1]</sup>. T0070907 (50  $\mu$ M) treatment reduces the levels of  $\alpha$ - and  $\beta$ -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<sup>[2]</sup>. T0070907 (10  $\mu$ M) has cytotoxicity in an adipocyte-specific and PPAR $\gamma$ -independent manner. T0070907 increases oxidative stress in immature adipocytes<sup>[3]</sup>. T0070907 (1  $\mu$ M) 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<sup>[4]</sup>.



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