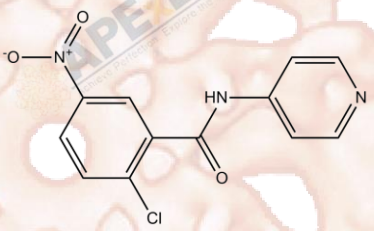
Product Data Sheet

T0070907



Cat. No.:	A4301
CAS No.:	313516-66-4
Formula:	C12H8ClN3O3
M.Wt:	277.66
Synonyms:	
Target:	Metabolism
Pathway:	PPAR
Storage:	Store at -20°C

Solvent & Solubility

In Vitro

⩾27.8 mg/mL in DMSO; insoluble in H2O; ⩾4.77 mg/mL in EtOH with gentle warming and ultrasonic

Preparing Stock Solutions

Mass / Solvent / Concentration	1mg	5mg	10mg
1 mM	3.6015 mL	18.0076 mL	36.0153 mL
5 mM	0.7203 mL	3.6015 mL	7.2031 mL
10 mM	0.3602 mL	1.8008 mL	3.6015 mL

Please refer to the solubility information to select the appropriate solvent.

Biological Activity

Shortsummary	Human PPARγ antagonist,potent and selective
IC_{50} & Target	1 nM (human PPARγ)

In Vitro

Cell Viability Assay

Cell Line:	HeLa, SiHa, and Me180 cell lines
Preparation method：	The solubility of this compound in DMSO is >13.9 mg/ml. General tips for obtaining a higher concentration: Please warm the tube at 37°C for 10 minutes and/or shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.
Reacting conditions:	50 μM

	Applications:	Three cervical cancer cell lines (HeLa, SiHa, and Me180) were treated with a PPARγ inhibitor, T0070907, and/or radiation. T0070907 has significantly decreased the tubulin levels in a time-dependent manner in ME180 cells. The decrease in the tubulin levels after T0070907 in ME180 and SiHa cells was associated with significant increase in the cells at the G2/M phase. The changes in the tubulin and G2/M phase were not evident in HeLa cells. T0070907 reduced the protein levels of PPARγ; however, PPARγ silencing had no effect on the α-tubulin level in ME180 cells suggesting the PPARγ-dependent and -independent actions of T0070907.
In Vivo	**Animal experiment**	
	Applications:	

Product Citations

See more customer validations on www.apexbt.com.

References

[1] An Z, et al. T0070907, a PPAR γ inhibitor, induced G2/M arrest enhances the effect of radiation in human cervical cancer cells through mitotic catastrophe. Reprod Sci. 2014 Nov;21(11):1352-61.

Caution

FOR RESEARCH PURPOSES ONLY.

NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

Specific storage and handling information for each product is indicated on the product datasheet. Most APExBIO products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Shortterm storage of many products are stable in the short-term at temperatures that differ from that required for long-term storage. We ensure that the product is shipped under conditions that will maintain the quality of the reagents. Upon receipt of the product, follow the storage recommendations on the product data sheet.

7505 Fannin street, Suite 410, Houston, TX 77054.
Tel: +1-832-696-8203 | Fax: +1-832-641-3177 | Email: info@apexbt.com