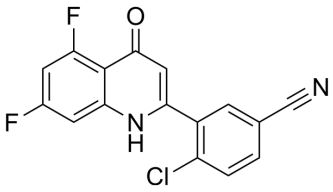
FTX-6746

Cat. No.:	HY-153364
CAS No.:	2829349-96-2
Molecular Formula:	$C_{16}H_7ClF_2N_2O$
Molecular Weight:	316.69
Target:	PPAR
Pathway:	Cell Cycle/DNA Damage; Vitamin D Related/Nuclear Receptor
Storage:	Powder -20°C 3 years 4°C 2 years In solvent -80°C 6 months -20°C 1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 50 mg/mL (157.88 mM; ultrasonic and warming and heat to 80°C)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	3.1577 mL	15.7883 mL	31.5766 mL
	5 mM	0.6315 mL	3.1577 mL	6.3153 mL
	10 mM	0.3158 mL	1.5788 mL	3.1577 mL

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

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: 2.5 mg/mL (7.89 mM); Clear solution; Need ultrasonic
2. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: 2.5 mg/mL (7.89 mM); Clear solution; Need ultrasonic

BIOLOGICAL ACTIVITY

Description

FTX-6746 is an orally active PPARG inhibitor. FTX-6746 shows potent tumor inhibition in mouse xenograft models[1].

IC_{50} & Target

PPARγ

In Vivo

FTX-6746 (3-60 mg/kg; po; twice daily for 21 d) results significant tumor suppression in UMUC9 or HT1197 xenograft model in mouse[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	UMUC9 or HT1197 xenograft model in NCG or Balb/C nude mice[1]

Dosage:	3 mg/kg, 10 mg/kg, 30 mg/kg, 60 mg/kg
Administration:	PO; twice daily for 21 days
Result:	Resulted >100% tumor growth inhibition at day 21 in HT1197 xenograft model. Resulted up to 80% target gene suppression in tumor tissue at day 2.

REFERENCES

[1]. Mertz J, et al. Novel inhibitors of the luminal lineage transcription factor peroxisome proliferator-activated receptor gamma (PPARG) durably eradicate tumors in urothelial cancer (UC) animal models[J]. European Journal of Cancer, 2022, 174: S33-S34.

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