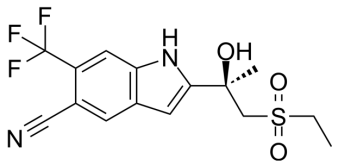
JNJ-26146900

Cat. No.:	HY-123310
CAS No.:	868691-50-3
Molecular Formula:	$C_{15}H_{15}F_3N_2O_3S$
Molecular Weight:	360.35
Target:	Androgen Receptor
Pathway:	Vitamin D Related/Nuclear Receptor
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

JNJ-26146900 is a potent and orally active androgen receptor antagonist with a K_i value of 400nM for rat AR. JNJ-26146900 is a nonsteroidal androgen receptor (AR) ligand. JNJ-26146900 reduces prostate tumor size and prevents bone loss. JNJ-26146900 can be used in research of cancer[1].

In Vitro

JNJ-26146900 bound to the rat androgen receptor transfected into Cos-7 cells with submicromolar potency[1].

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

In Vivo

JNJ-26146900 (10-100 mg/kg; p.o.; mature male Sprague-Dawley rats) reduces the wet weights of both the ventral prostate and levator ani muscle as effectively[1].

JNJ-26146900 (30-100 mg/kg; p.o.) prevents prostate tumor growth in the Dunning rat model, maximally inhibiting growth at a dose of 10mg/kg. JNJ-26146900 inhibits tumor growth significantly in a CWR22-LD1 mouse xenograft model of human prostate cancer[1].

JNJ-26146900 (30 mg/kg; p.o.; mature male Sprague-Dawley rats) reduces castration-induced tibial bone loss[1].

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

Animal Model:	mature male Sprague-Dawley rats[1]
Dosage:	10, 30, 100 mg/kg
Administration:	oral gavage; daily, for 6 weeks
Result:	Reduced ventral prostate weight.

Animal Model:	CWR22-LD1 mouse xenograft model[1]
Dosage:	30, 100 mg/kg
Administration:	oral gavage; twice per day for 3 weeks
Result:	Inhibited tumor growth at 100 mg/kg, reducing mean tumor weight at Day 21 to about 30% of the intact vehicle tumor weight.

REFERENCES

[1]. Lanter J, et, al. A selective androgen receptor modulator that reduces prostate tumor size and prevents orchidectomy-induced bone loss in rats. J Steroid Biochem Mol Biol. 2007 Jan;103(1):76-83.

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