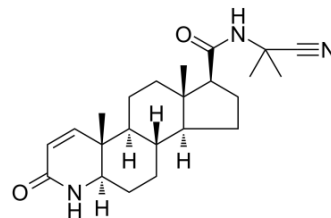


CGP-53153

Cat. No.:	HY-U00125
CAS No.:	149281-19-6
Molecular Formula:	C ₂₃ H ₃₃ N ₃ O ₂
Molecular Weight:	383.53
Target:	5 alpha Reductase
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	CGP-53153 is a steroidal inhibitor of 5 alpha reductase with IC ₅₀ s of 36 and 262 nM in rat and human prostatic tissue, respectively.
IC₅₀ & Target	IC ₅₀ : 36 nM (rat 5 alpha reductase), 262 nM (human 5 alpha reductase) ^[1]
In Vitro	CGP-53153 competitively inhibits rat microsomal 5 alpha reductase from prostate with an IC ₅₀ of 36 nM compared to the reference compound finasteride (IC ₅₀ =11 nM). CGP 53153 is approximately one order of magnitude more potent in inhibiting rat compared to human 5 alpha reductase, with IC ₅₀ values of 36 and 262 nM, respectively MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	CGP-53153 can significantly reduce T-propionate-mediated prostate growth at oral doses of 0.01 mg/kg. CGP-53153 significantly reduces prostate weight at 3 and 10 mg/kg by 31% and 37%, respectively. Treatment for 12 weeks with both CGP-53153 reduces prostate volume by more than 70% in individual dogs. Neither body weight nor the weight of any organ tested is affected by CGP-53153 ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

PROTOCOL

Animal Administration ^[1]	Rats: Adult male rats weighing 160-180 g at the start of the study are treated orally once daily for 14 consecutive days either with increasing doses of CGP-53153 (1, 3 and 10 mg/kg) or with 10 mg/kg finasteride in 20% HCD. Control rats are given 20% HCD. On the 14th treatment day, 4 h after the last application, the animals are randomized and rapidly killed. Trunk blood is collected in polystyrene tubes and serum obtained by centrifugation is stored at -20°C for hormone (T, DHT and rat-LH) determination at a later date. After decapitation, the following organs are excised and weighed after removal of adhering fat and connective tissue: ventral prostate, seminal vesicles, levator ani and bulbocavernosus muscle, testes, pituitary, adrenals, thyroid, thymus and liver ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
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REFERENCES

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA