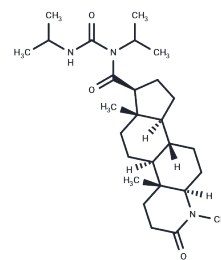


Turosteride

Chemical Properties

CAS No. :	137099-09-3
Formula:	C ₂₇ H ₄₅ N ₃ O ₃
Molecular Weight:	459.66
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	Turosteride is a small molecule steroidal 5 α -reductase (5 α -reductase) inhibitor. Turosteride has antitumor activity for the treatment of oncologic diseases and genitourinary disorders, and may be used in the study of prostate cancer.
Targets(IC50)	Reductase
In vivo	Turosteride caused inhibition of rat and human prostatic enzymes, with IC ₅₀ values of 55 and 53 nM, respectively. In addition, turosteride did not show any relevant binding affinity to the rat prostate androgen receptor (IC ₅₀ 84 μ M; relative binding affinity 0.004% of DHT). The endocrine effects of turosteride were evaluated in adult male rats, treated orally at daily doses of 3, 10 and 30 mg/kg for 20 days. At these doses, the compound reduced the ventral prostate weight by 10, 33 and 42% and the intraprostatic total DHT content by 61, 74 and 78%, respectively, whereas no change in the intraprostatic content of T was observed. Turosteride caused a 40% reduction of serum DHT levels which, however, did not reach statistical significance, whereas serum T levels were similar to control animals. No effect on serum luteinizing hormone or prolactin was observed. These results indicate that the antiprostatic effect of turosteride in the adult rat is related to inhibition of the conversion of T to DHT.[1]

Solubility Information

Solubility	DMSO: 45 mg/mL (97.9 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.1755 mL	10.8776 mL	21.7552 mL
5 mM	0.4351 mL	2.1755 mL	4.351 mL
10 mM	0.2176 mL	1.0878 mL	2.1755 mL
50 mM	0.0435 mL	0.2176 mL	0.4351 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

di Salle E, et al. Hormonal effects of turosteride, a 5 alpha-reductase inhibitor, in the rat. J Steroid Biochem Mol Biol. 1993;46(5):549-555.

Di Salle E, et al. Endocrine properties of the testosterone 5 alpha-reductase inhibitor turosteride (FCE 26073). J Steroid Biochem Mol Biol. 1994;48(2-3):241-248.

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