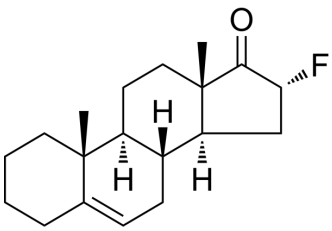
Fluasterone

Cat. No.:	HY-106328
CAS No.:	112859-71-9
Molecular Formula:	$C_{19}H_{27}FO$
Molecular Weight:	290.42
Target:	Others
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Fluasterone is a potent G6PD inhibitor with a K_i of 0.51 μM. Fluasterone has anti-inflammatory, cancer preventive, and anti-diabetic effects. Fluasterone is orally active[1][2][3].
IC_{50} & Target	Ki: 0.51 μM (G6PD)[3]
In Vivo	Fluasterone (0.2% and 0.3%; in diet for 39 days) shows anti-hyperglycemic effect in diabetic mice[2]. Fluasterone (200 μg/mouse; intradermal injection; once) suppresses the TPA-induced acute inflammatory and epidermal hyperplastic effect[3]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	Male C57BL/KsJ db/db mice, diabetic model[2]
Dosage:	0.2% and 0.3%
Administration:	In the diet for 39 days
Result:	Markedly reduced plasma glucose levels.

REFERENCES

[1]. Schwartz AG, et al. Potential therapeutic use of dehydroepiandrosterone and structural analogs. Diabetes Technol Ther. 2001 Summer;3(2):221-4.

[2]. Pashko LL, et al. Antihyperglycemic effect of dehydroepiandrosterone analogue 16 alpha-fluoro-5-androsten-17-one in diabetic mice. Diabetes. 1993 Aug;42(8):1105-8.

[3]. Schwartz AG, et al. Suppression of 12-O-tetradecanoylphorbol-13-acetate-induced epidermal hyperplasia and inflammation by the dehydroepiandrosterone analog 16alpha-fluoro-5-androsten-17-one and its reversal by NADPH liposomes. Cancer Lett. 2001 Jul 10;168(1):7-14.

[4]. Schwartz AG, et al. Suppression of 12-O-tetradecanoylphorbol-13-acetate-induced epidermal hyperplasia and inflammation by the dehydroepiandrosterone analog 16alpha-fluoro-5-androsten-17-one and its reversal by NADPH liposomes. Cancer Lett. 2001 Jul 10;168(1):7-14.

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

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