# 5 alpha Reductase

## 5α-reductase

5 alpha Reductase (5α-reductases), also known as 3-oxo-5α-steroid 4-dehydrogenases, are enzymes involved in steroid metabolism. They participate in 3 metabolic pathways: bile acid biosynthesis, androgen and estrogen metabolism, and prostate cancer.

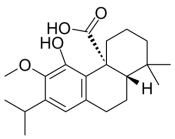
# 5 alpha Reductase Inhibitors

## 12-O-Methylcarnosic acid

(12-Methoxycarnosic acid)

Cat. No.: HY-N7510

12-O-Methylcarnosic acid (12-Methoxycarnosic acid), a diterpene carnosic acid isolated from the acetone extract of Salvia microphylla, is an active constituent of **5α-reductase** inhibition with an $IC_{50}$ value of 61.7 μM.



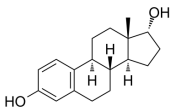
**Purity:** >98%
**Clinical Data:** No Development Reported
**Size:** 1 mg, 5 mg

## Alpha-Estradiol

(Alfatradiol; Epiestradiol; Epiestrol)

Cat. No.: HY-B0141A

Alpha-Estradiol is a weak estrogen and a **5α-reductase** inhibitor which is used as a topical medication in the treatment of androgenic alopecia.

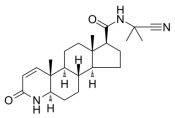


**Purity:** 99.77%
**Clinical Data:** Launched
**Size:** 10 mM × 1 mL, 100 mg, 500 mg

## CGP-53153

Cat. No.: HY-U00125

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.



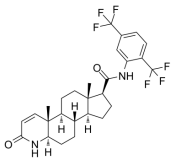
**Purity:** >98%
**Clinical Data:** No Development Reported
**Size:** 1 mg, 5 mg

## Dutasteride

(GG 745; GI 198745)

Cat. No.: HY-13613

Dutasteride (GG745) is a potent inhibitor of both **5α-reductase isozymes**. Dutasteride may possess off-target effects on the androgen receptor (AR) due to its structural similarity to DHT.



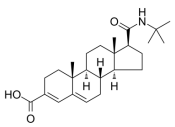
**Purity:** 99.73%
**Clinical Data:** Launched
**Size:** 10 mM × 1 mL, 10 mg, 50 mg, 100 mg

## Epristeride

(ONO-9302; SKF105657)

Cat. No.: HY-107385

Epristeride is a novel **5α-reductase** inhibor.



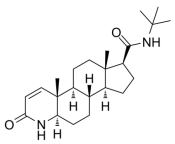
**Purity:** 99.96%
**Clinical Data:** Launched
**Size:** 10 mM × 1 mL, 5 mg, 10 mg, 25 mg

## Finasteride

(MK-906)

Cat. No.: HY-13635

Finasteride (MK-906) is a potent and competitive **5α-reductase** inhibitor, with an $IC_{50}$ of 4.2 nM for type Ⅱ 5α-reductase. Finasteride has approximately a 100-fold greater affinity for type Ⅱ 5α-reductase enzyme than for the type Ⅰ enzyme.



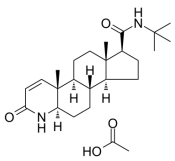
**Purity:** 99.97%
**Clinical Data:** Launched
**Size:** 10 mM × 1 mL, 100 mg, 200 mg

## Finasteride acetate

(MK-906 acetate)

Cat. No.: HY-13635A

Finasteride (MK-906) acetate is a potent and competitive **5α-reductase** inhibitor, with an $IC_{50}$ of 4.2 nM for type Ⅱ 5α-reductase. Finasteride acetate has approximately a 100-fold greater affinity for type Ⅱ 5α-reductase enzyme than for the type Ⅰ enzyme.

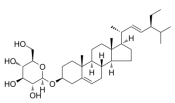


**Purity:** >98%
**Clinical Data:** Launched
**Size:** 1 mg, 5 mg

## Stigmasterol glucoside

Cat. No.: HY-N1200

Stigmasterol glucoside is a sterol isolated from P. urinaria with high antioxidant and anti-inflammatory activities, act as an inhibitor of **5α-reductase** with an $IC_{50}$ of 27.2μM.



**Purity:** >98%
**Clinical Data:** No Development Reported
**Size:** 1 mg, 5 mg