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 & Modulators

**Alpha-Estradiol**
(Alfatradiol; Epiestradiol; Epiestrol)

Cat. No.: HY-B0141A

**Bioactivity:** 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:** 99.46%
**Clinical Data:** Launched
**Size:** 10mM x 1mL in DMSO, 100 mg, 500 mg

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**CGP-53153**

Cat. No.: HY-U00125

**Bioactivity:** CGP-53153 is a steroidal inhibitor of 5 alpha reductase with IC₅₀ of 36 and 262 nM in rat and human prostatic tissue, respectively.

**Purity:** >98%
**Clinical Data:** No Development Reported
**Size:** 1 mg, 5 mg, 10 mg, 20 mg

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**Dutasteride**
(GG 745; GI 198745)

Cat. No.: HY-13613

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

**Purity:** 99.79%
**Clinical Data:** Launched
**Size:** 10mM x 1mL in DMSO, 10 mg, 50 mg, 100 mg

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**Epristeride**
(ONO-9302; SKF105657)

Cat. No.: HY-107385

**Bioactivity:** Epristeride is a novel 5α-reductase inhibitor.

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

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**Finasteride**
(MK-906)

Cat. No.: HY-13635

**Bioactivity:** Finasteride is an orally active testosterone 5-alpha-reductase inhibitor (Ki= 10 nM)

**Purity:** 99.96%
**Clinical Data:** Launched
**Size:** 10mM x 1mL in DMSO, 100 mg, 200 mg

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**Finasteride acetate**
(MK-906 acetate)

Cat. No.: HY-13635A

**Bioactivity:** Finasteride (acetate) is an orally active testosterone 5-alpha-reductase inhibitor.

**Purity:** >98%
**Clinical Data:** Launched
**Size:** 100 mg, 200 mg

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Alpha-Estradiol
(Alfatradiol; Epiestradiol; Epiestrol)

Cat. No.: HY-B0141A

**Bioactivity:**

![Chemical Structure of Alpha-Estradiol]

**Purity:** 99.46%
**Clinical Data:** Launched
**Size:** 10mM x 1mL in DMSO, 100 mg, 500 mg

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CGP-53153

Cat. No.: HY-U00125

**Bioactivity:**

![Chemical Structure of CGP-53153]

**Purity:** >98%
**Clinical Data:** No Development Reported
**Size:** 1 mg, 5 mg, 10 mg, 20 mg

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Dutasteride
(GG 745; GI 198745)

Cat. No.: HY-13613

**Bioactivity:**

![Chemical Structure of Dutasteride]

**Purity:** 99.79%
**Clinical Data:** Launched
**Size:** 10mM x 1mL in DMSO, 10 mg, 50 mg, 100 mg

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Epristeride
(ONO-9302; SKF105657)

Cat. No.: HY-107385

**Bioactivity:**

![Chemical Structure of Epristeride]

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

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Finasteride
(MK-906)

Cat. No.: HY-13635

**Bioactivity:**

![Chemical Structure of Finasteride]

**Purity:** 99.96%
**Clinical Data:** Launched
**Size:** 10mM x 1mL in DMSO, 100 mg, 200 mg

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Finasteride acetate
(MK-906 acetate)

Cat. No.: HY-13635A

**Bioactivity:**

![Chemical Structure of Finasteride acetate]

**Purity:** >98%
**Clinical Data:** Launched
**Size:** 100 mg, 200 mg