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Inhibitors, Agonists, Screening Libraries

Progesterone Receptor

NR3C3

Progesterone receptor (PR) is a protein found inside cells, which is activated by the steroid hormone progesterone. In humans, PR is encoded by a single PGR gene residing on chromosome 11q22, it has two main forms, A and B, that differ in their molecular weight. Progesterone is necessary to induce the progesterone receptors. When no binding hormone is present the carboxyl terminal inhibits transcription. Binding to a hormone induces a structural change that removes the inhibitory action. Progesterone antagonists prevent the structural reconfiguration. After progesterone binds to the receptor, restructuring with dimerization follows and the complex enters the nucleus and binds to DNA. There transcription takes place, resulting in formation of messenger RNA that is translated by ribosomes to produce specific proteins. Progesterone receptor plays a central role in diverse reproductive events associated with establishment and maintenance of pregnancy, alveolar development in the breast and sexual behavior.

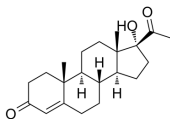
Progesterone Receptor Inhibitors, Agonists, Antagonists, Activators & Modulators

17-Hydroxyprogesterone

(17 α -Hydroxyprogesterone; 17-OHP)

Cat. No.: HY-B0891

17-Hydroxyprogesterone (17-OHP) is an endogenous progestogen as well as chemical intermediate in the biosynthesis of other steroid hormones, including the corticosteroids and the androgens and the estrogens.



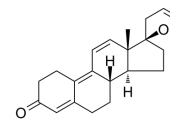
Purity: 99.94%
Clinical Data: Launched
Size: 100 mg

Altrenogest

(Allyltrenbolone; RU2267)

Cat. No.: HY-B0521

Altrenogest (Allyltrenbolone) is a progestogen structurally related to veterinary steroid trenbolone.



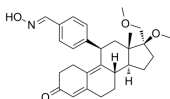
Purity: 99.80%
Clinical Data: No Development Reported
Size: 10 mM \times 1 mL, 100 mg, 500 mg

Asoprisnil

(J867)

Cat. No.: HY-119433

Asoprisnil (J867), a selective **progesterone receptor** modulator, exhibits mixed progesterone agonist and antagonist effects on various progesterone targeted tissues in animal and human.

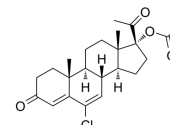


Purity: 98.30%
Clinical Data:
Size: 1 mg

Chlormadinone acetate

Cat. No.: HY-B1095

Chlormadinone acetate is a steroidal progestin, with antiandrogen and antiestrogenic effects.

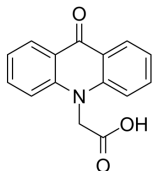


Purity: >98.0%
Clinical Data: Launched
Size: 10 mM \times 1 mL, 100 mg

Cridanimod

Cat. No.: HY-W011890

Cridanimod is a potent **progesterone receptor (PR)** activator mediated through induction of **IFN α** and **IFN β** expression. Cridanimod is a small-molecule immunomodulator and interferon inducer.



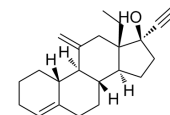
Purity: 99.97%
Clinical Data: No Development Reported
Size: 10 mM \times 1 mL, 5 mg, 10 mg, 50 mg, 100 mg

Desogestrel

(Org-2969)

Cat. No.: HY-12516

Desogestrel(Org-2969) is a third-generation 19-nortestosterone derivative progestogen; is contained in many oral contraceptive preparations, both combined (COCs) to ethinyl-estradiol (EE) or alone in a progestin-only pill (POP).



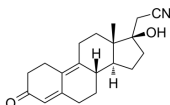
Purity: 99.70%
Clinical Data: Launched
Size: 10 mM \times 1 mL, 10 mg, 50 mg, 100 mg

Dienogest

(STS 557)

Cat. No.: HY-B0084

Dienogest(STS-557) is a specific progesterone receptor agonist with potent oral endometrial activity and is used in the treatment of endometriosis. Target: progesterone receptor agonist Dienogest is an orally active synthetic progesterone (or progestin).



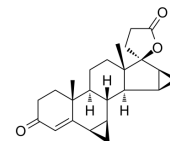
Purity: 99.83%
Clinical Data: Launched
Size: 10 mM \times 1 mL, 10 mg, 50 mg, 100 mg

Drospirenone

(Dihydrospirorenone)

Cat. No.: HY-B0111

Drospirenone(Dihydrospirorenone) is a synthetic progestin that is an analog to spironolactone.

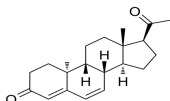


Purity: 98.45%
Clinical Data: Launched
Size: 10 mM \times 1 mL, 10 mg, 50 mg, 100 mg

Dydrogesterone

Cat. No.: HY-B0257A

Dydrogesterone is a potent, orally active progestogen indicated in a wide variety of gynaecological conditions related to progesterone deficiency.

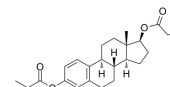


Purity: 99.98%
Clinical Data: Launched
Size: 10 mM \times 1 mL, 10 mg, 25 mg, 50 mg, 100 mg

Estradiol dipropionate

Cat. No.: HY-B2245

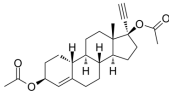
Estradiol dipropionate is a combined estrogen-progesterone, acts as an **estrogen** and **progesterone** agonist.



Purity: >98.0%
Clinical Data: Launched
Size: 10 mM \times 1 mL, 5 mg, 10 mg

Ethinodiol diacetate
(Ethinodiol acetate) Cat. No.: HY-B1089

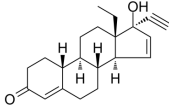
Ethinodiol diacetate (Ethinodiol acetate) is a steroidal progestin which is used as a hormonal contraceptive, it has relatively little or no potency as an androgen, has significant estrogenic effects.



Purity: 98.02%
Clinical Data: Launched
Size: 10 mM × 1 mL, 500 mg

Gestodene
(SHB 331; WL 70) Cat. No.: HY-B0110

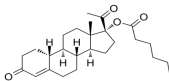
Gestodene (SHB 331; WL 70) is a progestogen hormonal contraceptive. Target: Estrogen Receptor/ERR. Gestodene is androgenically neutral, meaning that contraceptive pills containing gestodene do not exhibit the androgenic side effects (e.g.



Purity: 99.86%
Clinical Data: Launched
Size: 10 mM × 1 mL, 50 mg, 100 mg

Gestonorone Capronate
(Gestonorone caproate) Cat. No.: HY-U00091

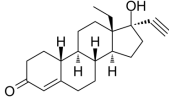
Gestonorone Capronate is a progestin for the treatment of benign prostatic hypertrophy and endometrial cancer.



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

Levonorgestrel
(D-Norgestrel) Cat. No.: HY-B0257

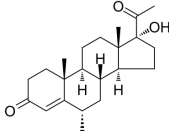
Levonorgestrel is a synthetic progestogen used as an active ingredient in some hormonal contraceptives.



Purity: 99.13%
Clinical Data: Launched
Size: 100 mg, 500 mg

Medroxyprogesterone
(17 α -Hydroxy-6 α -methylprogesterone; U8840) Cat. No.: HY-B0648

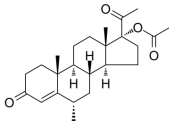
Medroxyprogesterone is a progestin, a synthetic variant of the human hormone progesterone and a potent progesterone receptor agonist. Target: Progesterone Receptor. Medroxyprogesterone (MP), is a steroidal progestin drug which was never marketed for use in humans.



Purity: 99.43%
Clinical Data: Launched
Size: 10 mM × 1 mL, 100 mg, 500 mg, 1 g

Medroxyprogesterone acetate
(Medroxyprogesterone 17-acetate; MPA) Cat. No.: HY-B0469

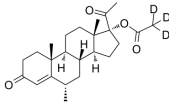
Medroxyprogesterone acetate is a widely used synthetic steroid by its interaction with **progesterone, androgen and glucocorticoid receptors**.



Purity: 99.82%
Clinical Data: Launched
Size: 10 mM × 1 mL, 100 mg, 500 mg

Medroxyprogesterone acetate D3
(Medroxyprogesterone 17-acetate D3; MPA D3) Cat. No.: HY-B0469S

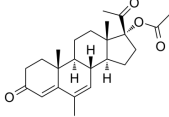
Medroxyprogesterone acetate D3 is deuterium labeled Medroxyprogesterone acetate. Medroxyprogesterone acetate is a widely used synthetic steroid by its interaction with **progesterone, androgen and glucocorticoid receptors**.



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

Megestrol acetate Cat. No.: HY-13676

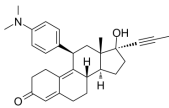
Megestrol acetate is a synthetic and orally active progestational agent. Megestrol acetate is effective as an appetite stimulant for wasting syndromes such as cachexia. Megestrol acetate decreases nuclear and cytosol **androgen receptors** human BPH tissue.



Purity: 99.81%
Clinical Data: Launched
Size: 10 mM × 1 mL, 500 mg, 1 g, 5 g

Mifepristone
(RU486; RU 38486) Cat. No.: HY-13683

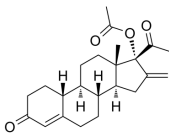
Mifepristone (RU486) is a **progesterone receptor (PR)** and **glucocorticoid receptor (GR)** antagonist with IC_{50} s of 0.2 nM and 2.6 nM in in vitro assay.



Purity: 98.67%
Clinical Data: Launched
Size: 10 mM × 1 mL, 100 mg, 500 mg

Nestoron
(ST-1435; Elcometrine) Cat. No.: HY-13071

Nestoron (ST-1435) is a 19-norprogesterone derivative with high affinity and selectivity for **progesterone receptors**. Nestoron is a highly selective and potent progestogen that can be used as a hormonal contraceptive.

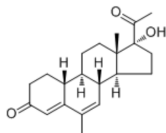


Purity: 99.41%
Clinical Data: Launched
Size: 10 mM × 1 mL, 10 mg, 50 mg

Nomegestrol

Cat. No.: HY-105634

Nomegestrol is a potent and orally available progestin, acts as a selective full **progesterone receptor** agonist, with a K_d of 5.44 nM for rat uterine progesterone receptor, and has moderate antiandrogenic activity and strong antiestrogenic activity.

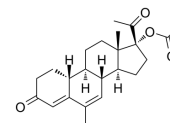


Purity: >98%
Clinical Data: Launched
Size: 1 mg, 5 mg

Nomegestrol acetate

Cat. No.: HY-105634A

Nomegestrol acetate is a potent, highly selective progestogen, which is characterized as a full agonist at the **progesterone receptor**, with no or minimal binding to other steroid receptors, including the androgen and glucocorticoid receptors.



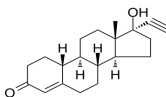
Purity: 98.50%
Clinical Data: Launched
Size: 10 mM × 1 mL, 5 mg, 10 mg, 25 mg, 50 mg, 100 mg

Norethindrone

(Norethisterone)

Cat. No.: HY-B0554

Norethindrone is a female progestin approved by FDA for the treatment of endometriosis, uterine bleeding caused by abnormal hormone levels, and secondary amenorrhea.



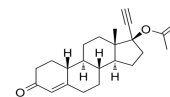
Purity: 99.57%
Clinical Data: Launched
Size: 100 mg, 500 mg

Norethindrone acetate

(19-Norethindrone acetate)

Cat. No.: HY-B1710

Norethindrone acetate is a female hormone used for the research of endometriosis.



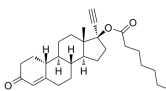
Purity: 99.41%
Clinical Data: Launched
Size: 10 mM × 1 mL, 100 mg, 500 mg

Norethisterone enanthate

(Norgest)

Cat. No.: HY-A0285

Norethisterone enanthate is a long-acting **parenteral progestogen**. Norethisterone enanthate is orally active.

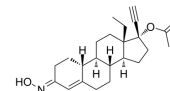


Purity: 99.50%
Clinical Data: No Development Reported
Size: 10 mM × 1 mL, 100 mg, 250 mg, 500 mg

Norgestimate

Cat. No.: HY-W013172

Norgestimate, a synthetic progesterone analog, is an orally active **progestin** with highly selective progestational activity and minimal androgenicity. Norgestimate is used for an oral contraceptive.



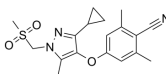
Purity: >99.0%
Clinical Data: Launched
Size: 10 mg

PF-02413873

(PF-2413873)

Cat. No.: HY-11028

PF-02413873 (PF-2413873) is a potent selective, fully competitive and orally active nonsteroidal **progesterone receptor (PR)** antagonist, with a K_i of 2.6 nM. PF-02413873 can block progesterone binding and PR nuclear translocation, and inhibit endometrial growth in vivo.



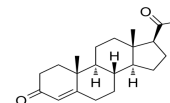
Purity: >99.0%
Clinical Data: No Development Reported
Size: 5 mg

Progesterone

(Pregn-4-ene-3,20-dione)

Cat. No.: HY-N0437

Progesterone is a steroid hormone that regulates the menstrual cycle and is crucial for pregnancy.



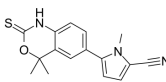
Purity: 99.46%
Clinical Data: Launched
Size: 10 mM × 1 mL, 100 mg, 1 g, 5 g

Tanaproget

(NSP-989)

Cat. No.: HY-15606

Tanaproget (NSP-989) is a novel nonsteroidal progesterone receptor agonist which can bind to the PR from various species with a higher relative affinity than reference steroidal progestins.



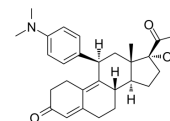
Purity: 99.93%
Clinical Data: No Development Reported
Size: 10 mM × 1 mL, 5 mg, 10 mg, 50 mg, 100 mg

Ulipristal

(CDB-3236; Deacetyl CDB-2914)

Cat. No.: HY-14959

Ulipristal (CDB 3236) is a selective **progesterone receptor modulator (SPRM)**. Ulipristal binds to the progesterone receptor, thereby inhibiting PR-mediated gene expression, and interfering with progesterone activity in the reproductive system.



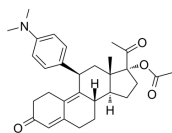
Purity: >98.0%
Clinical Data: No Development Reported
Size: 10 mM × 1 mL, 10 mg, 50 mg, 100 mg

Ulipristal acetate

(CDB-2914)

Cat. No.: HY-16508

Ulipristal acetate (CDB-2914) is an orally active, selective **progesterone receptor** modulator (SPRM). Ulipristal acetate stimulates the autophagic response selectively in leiomyoma cells.



Purity: 99.93%

Clinical Data: Launched

Size: 10 mM × 1 mL, 5 mg, 10 mg, 50 mg, 100 mg