



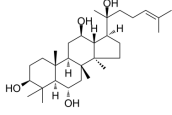
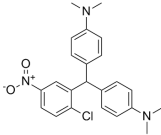
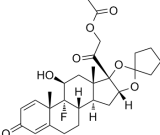
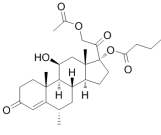
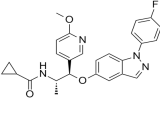
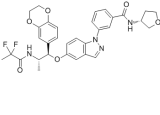
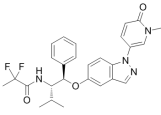
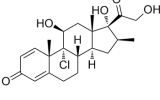
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Inhibitors, Agonists, Screening Libraries

# Glucocorticoid Receptor

Glucocorticoid Receptor (GR, or GCR) also known as NR3C1 (nuclear receptor subfamily 3, group C, member 1) is the receptor to which cortisol and other glucocorticoids bind. The GR is expressed in almost every cell in the body and regulates genes controlling the development, metabolism, and immune response. When the glucocorticoid receptor binds to glucocorticoids, its primary mechanism of action is the regulation of gene transcription. The unbound receptor resides in the cytosol of the cell. After the receptor is bound to glucocorticoid, the receptor-glucocorticoid complex can take either of two paths. The activated GR complex up-regulates the expression of anti-inflammatory proteins in the nucleus or represses the expression of pro-inflammatory proteins in the cytosol by preventing the translocation of other transcription factors from the cytosol into the nucleus. Dexamethasone is an agonist, and RU486 and cyproterone acetate are antagonists of the GR. Also, progesterone and DHEA have antagonist effects on the GR.

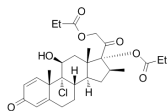
## Glucocorticoid Receptor Inhibitors, Agonists, Antagonists, Activators & Modulators

<p><b>(20S)-Protopanaxatriol</b> (20S)-APPT; g-PPT)</p> <p>Cat. No.: HY-N0835</p>	<p><b>(S)-Mapracorat</b> (S)-ZK-245186; (S)-BOL-303242X)</p> <p>Cat. No.: HY-14864A</p>
<p>(20S)-Protopanaxatriol is a metabolite of ginsenoside, works through the <b>glucocorticoid receptor (GR)</b> and <b>oestrogen receptor (ER)</b>, and is also a <b>LXR<math>\alpha</math></b> inhibitor.</p>  <p><b>Purity:</b> &gt;98.0% <b>Clinical Data:</b> No Development Reported <b>Size:</b> 10 mM <math>\times</math> 1 mL, 5 mg, 10 mg, 50 mg, 100 mg</p>	<p>(S)-Mapracorat is a selective and less active glucocorticoid receptor agonist.</p>  <p><b>Purity:</b> 99.40% <b>Clinical Data:</b> No Development Reported <b>Size:</b> 10 mM <math>\times</math> 1 mL, 5 mg, 10 mg</p>
<p><b>AL 082D06</b> (D06; D-06)</p> <p>Cat. No.: HY-15709</p>	<p><b>Amcinonide</b> (CL-34699)</p> <p>Cat. No.: HY-B1197</p>
<p>AL 082D06 is a selective, nonsteroidal glucocorticoid receptor (GR) antagonist with <math>K_i</math> of 210 nM.</p>  <p><b>Purity:</b> 98.92% <b>Clinical Data:</b> No Development Reported <b>Size:</b> 10 mM <math>\times</math> 1 mL, 5 mg, 10 mg, 50 mg, 100 mg</p>	<p>Amcinonide inhibit NO release from activated microglia with <math>IC_{50}</math> 3.38 nM. Amcinonide has affinity for the glucocorticoid receptor.</p>  <p><b>Purity:</b> &gt;98% <b>Clinical Data:</b> Launched <b>Size:</b> 100 mg</p>
<p><b>Amebucort</b></p> <p>Cat. No.: HY-U00298</p>	<p><b>AZD2906</b></p> <p>Cat. No.: HY-113854</p>
<p>Amebucort is a synthetic glucocorticoid corticosteroid, may used for the research of inflammatory disorders.</p>  <p><b>Purity:</b> 98.04% <b>Clinical Data:</b> No Development Reported <b>Size:</b> 1 mg, 5 mg, 10 mg, 20 mg</p>	<p>AZD2906 is a selective <b>glucocorticoid receptor (GR)</b> agonist, increases micronucleated immature erythrocytes in the bone marrow of rats. AZD2906 shows <math>IC_{50}</math>s of 2.2, 0.3, 41.6 and 7.5 nM at GR in human, rat PBMC and human, rat whole blood, respectively.</p>  <p><b>Purity:</b> 99.82% <b>Clinical Data:</b> No Development Reported <b>Size:</b> 10 mM <math>\times</math> 1 mL, 5 mg, 10 mg, 25 mg, 50 mg, 100 mg</p>
<p><b>AZD5423</b></p> <p>Cat. No.: HY-108243</p>	<p><b>AZD7594</b> (AZ13189620)</p> <p>Cat. No.: HY-111453</p>
<p>AZD5423 is an inhaled, potent, selective, and non-steroidal <b>glucocorticoid receptor (GR)</b> modulator (SGRM). AZD5423 effectively reduces allergen-induced responses in subjects with mild allergic asthma.</p>  <p><b>Purity:</b> &gt;98% <b>Clinical Data:</b> No Development Reported <b>Size:</b> 250 mg, 500 mg</p>	<p>AZD7594 is a potent selective nonsteroidal <b>glucocorticoid receptor modulator</b>, with an <math>IC_{50}</math> of 0.9 nM.</p>  <p><b>Purity:</b> 98.70% <b>Clinical Data:</b> No Development Reported <b>Size:</b> 10 mM <math>\times</math> 1 mL, 5 mg, 10 mg, 25 mg, 50 mg, 100 mg</p>
<p><b>AZD9567</b></p> <p>Cat. No.: HY-120012</p>	<p><b>Beclometasone</b> (Beclomethasone)</p> <p>Cat. No.: HY-B1540</p>
<p>AZD9567 (compound 15) is a potent, oral active, non-steroidal and <b>selective glucocorticoid receptor modulator (SGRM)</b>, with an <math>IC_{50}</math> of 3.8 nM. Exhibits excellent efficacy in the streptococcal cell wall (SCW) reactivation model of joint inflammation.</p>  <p><b>Purity:</b> &gt;99.0% <b>Clinical Data:</b> Phase 2 <b>Size:</b> 10 mM <math>\times</math> 1 mL, 5 mg, 10 mg</p>	<p>Beclometasone (Beclomethasone) is a prototype <b>glucocorticoid receptor agonist</b>.</p>  <p><b>Purity:</b> 92.92% <b>Clinical Data:</b> Launched <b>Size:</b> 10 mM <math>\times</math> 1 mL, 25 mg, 50 mg, 100 mg</p>

### Beclomethasone dipropionate

Cat. No.: HY-13571A

Beclomethasone dipropionate is a potent glucocorticoid agonist; it is a prodrug of the free form, beclomethasone.

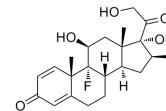


**Purity:** 99.92%  
**Clinical Data:** Launched  
**Size:** 10 mM × 1 mL, 250 mg

### Betamethasone

Cat. No.: HY-13570

Betamethasone is a glucocorticoid steroid with anti-inflammatory and immunosuppressive properties. Target: Glucocorticoid Receptor  
Betamethasone is a potent glucocorticoid steroid with anti-inflammatory and immunosuppressive properties.

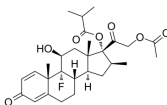


**Purity:** 99.24%  
**Clinical Data:** Launched  
**Size:** 10 mM × 1 mL, 100 mg, 500 mg

### Betamethasone acicubate

Cat. No.: HY-121062

Betamethasone acicubate, derives from Betamethasone, is an acetate ester. Betamethasone acicubate is a glucocorticoid.



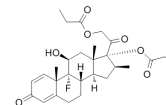
**Purity:** >98%  
**Clinical Data:** No Development Reported  
**Size:** 100 mg, 250 mg, 500 mg

### Betamethasone dipropionate

(Betamethasone 17,21-dipropionate)

Cat. No.: HY-13571

Betamethasone dipropionate is a **glucocorticoid** steroid with anti-inflammatory and immunosuppressive abilities.

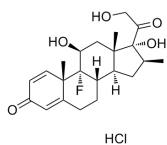


**Purity:** 99.12%  
**Clinical Data:** Launched  
**Size:** 10 mM × 1 mL, 250 mg, 1 g

### Betamethasone hydrochloride

Cat. No.: HY-13570A

Betamethasone (hydrochloride) is a glucocorticoid steroid with anti-inflammatory and immunosuppressive properties.

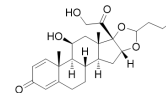


**Purity:** >98%  
**Clinical Data:** Launched  
**Size:** 100 mg, 500 mg

### Budesonide

Cat. No.: HY-13580

Budesonide is a **glucocorticoid steroid** with potent anti-inflammatory activity.



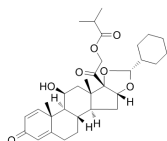
**Purity:** >98.0%  
**Clinical Data:** Launched  
**Size:** 10 mM × 1 mL, 100 mg, 200 mg, 500 mg

### Ciclesonide

(RPR251526)

Cat. No.: HY-B0625

Ciclesonide(RPR251526) is a glucocorticoid used to treat obstructive airway diseases.

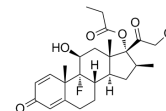


**Purity:** 98.95%  
**Clinical Data:** Launched  
**Size:** 10 mM × 1 mL, 10 mg, 50 mg

### Clobetasol propionate

Cat. No.: HY-13600

Clobetasol propionate is an anti-inflammatory corticosteroid used to treat various skin disorders.

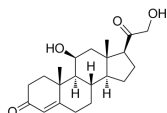


**Purity:** >98.0%  
**Clinical Data:** Launched  
**Size:** 10 mM × 1 mL, 100 mg, 200 mg, 500 mg

### Corticosterone (17-Deoxycortisol; 11 $\beta$ ,21-Dihydroxyprogesterone; Kendall's compound B)

Cat. No.: HY-B1618

Corticosterone is an adrenocortical steroid that has modest but significant activities as a mineralocorticoid and a glucocorticoid.

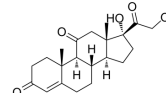


**Purity:** 99.70%  
**Clinical Data:** Phase 3  
**Size:** 10 mM × 1 mL, 50 mg

### Cortisone (17-Hydroxy-11-dehydrocorticosterone; Kendall's compound E)

Cat. No.: HY-17461

Cortisone is a 21-carbon steroid hormone. Cortisone is one of the main hormones released by the adrenal gland in response to stress. Target  
In chemical structure, it is a corticosteroid closely related to cortisol.



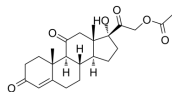
**Purity:** 99.90%  
**Clinical Data:** Launched  
**Size:** 10 mM × 1 mL, 100 mg, 500 mg

### Cortisone acetate

(Cortisone 21-acetate)

Cat. No.: HY-17461A

Cortisone acetate (17-hydroxy-11-dehydrocorticosterone), a 21-carbon steroid hormone, is one of the main hormones released by the adrenal gland in response to stress.



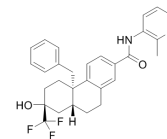
**Purity:** 99.42%  
**Clinical Data:** Launched  
**Size:** 10 mM × 1 mL, 100 mg, 500 mg

### Dagrocorat

(PF-00251802)

Cat. No.: HY-16718

Dagrocorat (PF-00251802) is a novel and dissociated **glucocorticoid receptor** agonist.

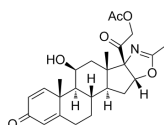


**Purity:** >98%  
**Clinical Data:** No Development Reported  
**Size:** 250 mg, 500 mg

### Deflazacort

Cat. No.: HY-13609

Deflazacort is a glucocorticoid used as an anti-inflammatory and immunosuppressant.



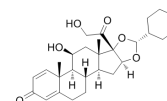
**Purity:** >98.0%  
**Clinical Data:** Launched  
**Size:** 10 mM × 1 mL, 50 mg, 100 mg

### Desisobutyryl-ciclesonide

(CIC-AP; Ciclesonide active principle)

Cat. No.: HY-111490

Desisobutyryl-ciclesonide is the active metabolite of Ciclesonide. Desisobutyryl-ciclesonide has affinity for the **glucocorticoid receptor**.

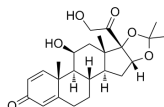


**Purity:** 99.53%  
**Clinical Data:** No Development Reported  
**Size:** 10 mM × 1 mL, 5 mg, 10 mg, 25 mg

### Desonide

Cat. No.: HY-B0248

Desonide is a nonfluorinated corticosteroid anti-inflammatory agent used topically for dermatoses.



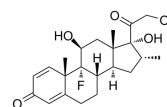
**Purity:** 99.81%  
**Clinical Data:** Launched  
**Size:** 10 mM × 1 mL, 10 mg, 50 mg, 100 mg, 200 mg, 500 mg

### Dexamethasone

(Hexadecadrol; Prednisolone F)

Cat. No.: HY-14648

Dexamethasone is a **glucocorticoid receptor** agonist.



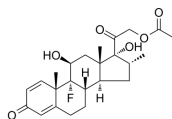
**Purity:** 99.86%  
**Clinical Data:** Launched  
**Size:** 10 mM × 1 mL, 1 g, 5 g

### Dexamethasone acetate

(Dexamethasone 21-acetate; Hexadecadrol (acetate))

Cat. No.: HY-14648A

Dexamethasone acetate is a **glucocorticoid receptor** agonist.



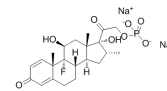
**Purity:** 97.68%  
**Clinical Data:** Launched  
**Size:** 10 mM × 1 mL, 1 g, 5 g

### Dexamethasone phosphate disodium

(Dexamethasone 21-phosphate disodium salt)

Cat. No.: HY-B1829A

Dexamethasone phosphate disodium is a **glucocorticoid receptor** agonist.



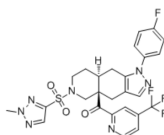
**Purity:** 99.68%  
**Clinical Data:** Launched  
**Size:** 10 mM × 1 mL, 100 mg, 500 mg

### Exicorilant

(CORT 125281)

Cat. No.: HY-117880

Exicorilant (CORT 125281) is a selective and oral active **glucocorticoid receptor (GR)** antagonist, with a  $K_i$  value of 7 nM. Exicorilant (CORT 125281) has potential to overcome adiposity, glucose intolerance and dyslipidaemia.

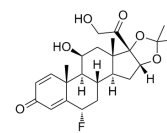


**Purity:** >98%  
**Clinical Data:** No Development Reported  
**Size:** 250 mg, 500 mg

### Flunisolide

Cat. No.: HY-B1121

Flunisolide is a corticosteroid often used to treat allergic rhinitis. The principal mechanism of action of Flunisolide is to activate glucocorticoid receptors, meaning it has an anti-inflammatory action.

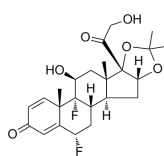


**Purity:** 99.86%  
**Clinical Data:** Launched  
**Size:** 100 mg

### Fluocinolone Acetonide

Cat. No.: HY-B0415

Fluocinolone Acetonide is a glucocorticoid derivative used topically in the treatment of various skin disorders.

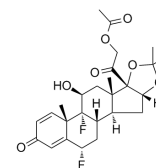


**Purity:** 98.58%  
**Clinical Data:** Launched  
**Size:** 10 mM × 1 mL, 1 g, 5 g

### Fluocinonide

Cat. No.: HY-B0485

Fluocinonide (Vanos) is a potent glucocorticoid steroid used topically as anti-inflammatory agent for the treatment of skin disorders.

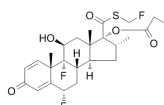


**Purity:** 99.42%  
**Clinical Data:** Launched  
**Size:** 10 mM × 1 mL, 100 mg, 500 mg

### Fluticasone propionate

Cat. No.: HY-B0154

Fluticasone propionate is a high affinity, selective GR (glucocorticoid receptor) agonist which is derived from fluticasone used to treat asthma and allergic rhinitis.



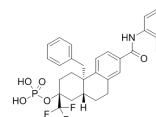
**Purity:** 99.97%  
**Clinical Data:** Launched  
**Size:** 10 mM × 1 mL, 10 mg, 50 mg

### Fosdagrocorat

(PF-04171327)

Cat. No.: HY-16722

Fosdagrocorat (PF-04171327) is a dissociated glucocorticoid receptor agonist.

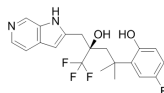


**Purity:** >98%  
**Clinical Data:** No Development Reported  
**Size:** 250 mg, 500 mg

### Glucocorticoid receptor agonist

Cat. No.: HY-14234

Glucocorticoid receptor agonist is a potent Glucocorticoid receptor agonist. IC50 value: Target.

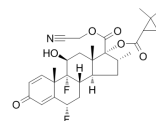


**Purity:** 98.57%  
**Clinical Data:** No Development Reported  
**Size:** 10 mM × 1 mL, 5 mg, 10 mg

### GW-870086

Cat. No.: HY-103662

GW-870086 is a potent anti-inflammatory agent, acting as a glucocorticoid receptor agonist, with a pIC<sub>50</sub> of 10.1 in A549 cells expressing NF-κB.



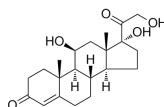
**Purity:** >98%  
**Clinical Data:** No Development Reported  
**Size:** 250 mg, 500 mg

### Hydrocortisone

(Cortisol)

Cat. No.: HY-N0583

Hydrocortisone is a steroid hormone or glucocorticoid secreted by the adrenal cortex.



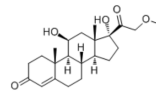
**Purity:** 99.66%  
**Clinical Data:** Launched  
**Size:** 10 mM × 1 mL, 1 g, 5 g

### Hydrocortisone acetate

(Hydrocortisone 21-acetate; Cortisol 21-acetate)

Cat. No.: HY-B1183

Hydrocortisone acetate is a corticosteroid, used to decrease swelling, itching, and pain that is caused by minor skin irritations or by hemorrhoids.

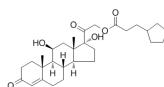


**Purity:** 99.23%  
**Clinical Data:** Launched  
**Size:** 10 mM × 1 mL, 100 mg

### Hydrocortisone cypionate

Cat. No.: HY-U00089

Hydrocortisone cypionate is a synthetic glucocorticoid corticosteroid and a corticosteroid ester.



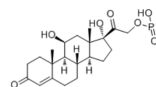
**Purity:** >98%  
**Clinical Data:** No Development Reported  
**Size:** 10 mM × 1 mL, 1 mg, 5 mg, 10 mg, 20 mg

### Hydrocortisone phosphate

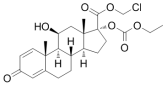
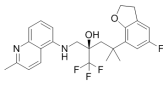
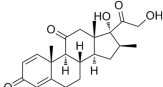
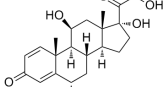
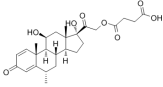
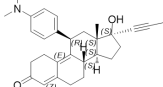
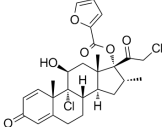
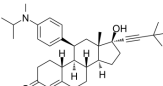
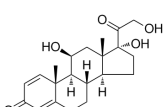
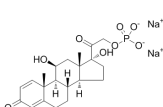
(Hydrocortisone 21-phosphate; Cortisol 21-phosphate)

Cat. No.: HY-B1155

Hydrocortisone phosphate is the pharmaceutical term for cortisol, which is a steroid hormone, in the glucocorticoid class of hormones, increases blood sugar through gluconeogenesis, to suppress the immune system, and to aid in the metabolism of fat, protein, and carbohydrate.



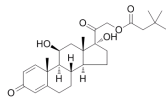
**Purity:** >98%  
**Clinical Data:** Launched  
**Size:** 50 mg

<p><b>Loteprednol Etabonate</b></p> <p>Cat. No.: HY-17358</p>	<p><b>Mapracorat</b> (ZK-245186; BOL-303242X)</p> <p>Cat. No.: HY-14864</p>
<p>Loteprednol Etabonate is an anti-inflammatory corticosteroid used in optometry and ophthalmology.</p>  <p><b>Purity:</b> &gt;98.0% <b>Clinical Data:</b> Launched <b>Size:</b> 10 mM × 1 mL, 10 mg, 50 mg, 100 mg</p>	<p>Mapracorat is a novel non-steroidal selective glucocorticoid receptor agonist.</p>  <p><b>Purity:</b> 99.40% <b>Clinical Data:</b> No Development Reported <b>Size:</b> 10 mM × 1 mL, 5 mg, 10 mg</p>
<p><b>Meprednisone</b></p> <p>Cat. No.: HY-B0243</p>	<p><b>Methylprednisolone</b> (U 7532)</p> <p>Cat. No.: HY-B0260</p>
<p>Meprednisone is a glucocorticoid and a methylated derivative of prednisone. Target: Glucocorticoid Receptor Meprednisone is a glucocorticoid and a methylated derivative of prednisone.</p>  <p><b>Purity:</b> 99.36% <b>Clinical Data:</b> Launched <b>Size:</b> 10 mg, 100 mg</p>	<p>Methylprednisolone is a synthetic corticosteroid with anti-inflammatory and immunomodulating properties. Target: Glucocorticoid Receptor Methylprednisolone is typically used for its anti-inflammatory effects.</p>  <p><b>Purity:</b> 99.67% <b>Clinical Data:</b> Launched <b>Size:</b> 10 mM × 1 mL, 100 mg, 500 mg</p>
<p><b>Methylprednisolone succinate</b> (Methylprednisolone hydrogen succinate)</p> <p>Cat. No.: HY-B1900</p>	<p><b>Mifepristone</b> (RU486; RU 38486)</p> <p>Cat. No.: HY-13683</p>
<p>Methylprednisolone succinate is a synthetic glucocorticoid and widely used as an anti-inflammatory agent.</p>  <p><b>Purity:</b> 99.14% <b>Clinical Data:</b> Launched <b>Size:</b> 10 mM × 1 mL, 10 mg, 50 mg, 100 mg, 200 mg</p>	<p>Mifepristone is a progesterone receptor (PR) and glucocorticoid receptor (GR) antagonist with IC<sub>50</sub>s of 0.2 nM and 2.6 nM in in vitro assay.</p>  <p><b>Purity:</b> 98.17% <b>Clinical Data:</b> Launched <b>Size:</b> 10 mM × 1 mL, 100 mg, 500 mg</p>
<p><b>Mometasone furoate</b> (Sch32088)</p> <p>Cat. No.: HY-13693</p>	<p><b>ORIC-101</b></p> <p>Cat. No.: HY-112710</p>
<p>Mometasone furoate, prodrug of the free form mometasone, is a agent with high affinity for the glucocorticoid receptor.</p>  <p><b>Purity:</b> &gt;98.0% <b>Clinical Data:</b> Launched <b>Size:</b> 10 mM × 1 mL, 50 mg, 100 mg, 200 mg, 500 mg</p>	<p>ORIC-101 is a highly potent and selective glucocorticoid receptor antagonist, with an EC<sub>50</sub> of 5.6 nM. Anti-cancer activity.</p>  <p><b>Purity:</b> &gt;98% <b>Clinical Data:</b> No Development Reported <b>Size:</b> 250 mg, 500 mg</p>
<p><b>Prednisolone</b></p> <p>Cat. No.: HY-17463</p>	<p><b>Prednisolone disodium phosphate</b> (Prednisolone 21-phosphate disodium)</p> <p>Cat. No.: HY-B0645</p>
<p>Prednisolone is a glucocorticoid with the general properties of the corticosteroids.</p>  <p><b>Purity:</b> &gt;98.0% <b>Clinical Data:</b> Launched <b>Size:</b> 10 mM × 1 mL, 1 g, 5 g</p>	<p>Prednisolone disodium phosphate is a synthetic glucocorticoid with anti-inflammatory and immunomodulating properties.</p>  <p><b>Purity:</b> 98.37% <b>Clinical Data:</b> Launched <b>Size:</b> 10 mM × 1 mL, 100 mg, 500 mg</p>

### Prednisolone Tebutate

Cat. No.: HY-U00098

Prednisolone tebutate is a synthetic glucocorticoid used as an antiinflammatory and immunosuppressant.



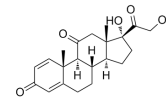
**Purity:** >98%  
**Clinical Data:** No Development Reported  
**Size:** 5 mg

### Prednisone

(Dehydrocortisone)

Cat. No.: HY-B0214

Prednisone (Adasone) is a synthetic corticosteroid agent that is particularly effective as an immunosuppressant compound. Target: Others  
Prednisone is a synthetic corticosteroid drug that is particularly effective as an immunosuppressant drug.



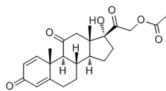
**Purity:** 99.35%  
**Clinical Data:** Launched  
**Size:** 10 mM × 1 mL, 1 g, 5 g

### Prednisone acetate

(Prednisone 21-acetate)

Cat. No.: HY-B1832

Prednisone acetate (Prednisone 21-acetate), the acetate salt form of prednisolone, is a **glucocorticoid receptor** agonist with anti-inflammatory and immunomodulating properties.

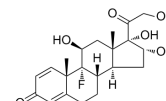


**Purity:** >98%  
**Clinical Data:** Launched  
**Size:** 10 mM × 1 mL, 1 g

### Triamcinolone

Cat. No.: HY-B0328

Triamcinolone is a long-acting synthetic corticosteroid. Target: Glucocorticoid Receptor  
Dimethyl fumarate is an anti-inflammatory. It is indicated for multiple sclerosis patients with relapsing forms and is also being investigated for the treatment of psoriasis.

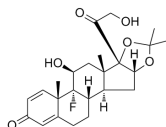


**Purity:** 99.15%  
**Clinical Data:** Launched  
**Size:** 10 mM × 1 mL, 100 mg, 500 mg

### Triamcinolone acetonide

Cat. No.: HY-B0636

Triamcinolone acetonide is a more potent type of triamcinolone, being about 8 times as effective as prednisone.

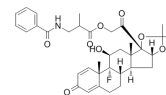


**Purity:** 99.08%  
**Clinical Data:** Launched  
**Size:** 10 mM × 1 mL, 1 g, 5 g

### Triamcinolone Benetonide

Cat. No.: HY-U00043

Triamcinolone benetonide is a synthetic glucocorticoid corticosteroid with anti-inflammatory activity.



**Purity:** >98%  
**Clinical Data:** No Development Reported  
**Size:** 100 mg, 250 mg, 500 mg