



# Sex Hormones



The sex hormones, or gonadocorticoids, are a group of steroids consisting of androgens, estrogens, and progestins. These hormones play a range of roles in human and animal development, as well as reproductive health. They occur naturally and are used as hormonal therapy or as drugs of abuse. Gonadocorticoids are of particular interest in the study of health, development, and food safety due to their use in food animals; they are also of particular interest for disease biomarker research in the study of certain cancers.

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## Androgens and Derivatives

Catalog No.	Description	Example Abbrev.	Concentration
DLM-10269	5 $\alpha$ -Androstan-3 $\beta$ -ol-17-one (epiandrosterone) (2,2,4,4-D <sub>4</sub> , 98%)	EPIA	Neat
DLM-8750	5 $\beta$ -Androstan-3 $\alpha$ -ol-17-one (etiocholanolone) (16,16-D <sub>2</sub> , 98%)	ETIO	Neat
DLM-10008	5 $\beta$ -Androstan-3 $\alpha$ -ol-17-one (etiocholanolone) (2,2,3,4,4-D <sub>5</sub> , 98%)	ETIO	Neat
DLM-9769	5 $\alpha$ -Androstane-3 $\alpha$ ,17 $\beta$ -diol (16,16,17-D <sub>3</sub> , 98%) CP 95%	Adiol	Neat
DLM-9787	Androstenediol glucuronide, sodium salt (16,16,17-D <sub>3</sub> , 98%)	Adiol-G	Neat
DLM-10420	4-Androstene-6 $\beta$ ,17 $\beta$ -diol-3-one (16,16,17-D <sub>3</sub> , 98%)	AD or A4	Neat
DLM-10397	4-Androsten-11 $\beta$ ,17 $\beta$ -diol-3-one (9,11,12,12-D <sub>4</sub> , 98%) CP 95%	AD or A4	Neat
DLM-10396	4-Androsten-11 $\beta$ -ol-3,17-dione (9,11,12,12-D <sub>4</sub> , 98%)	D7A4	Neat
DLM-9697	4-Androsten-11 $\beta$ -ol-3,17-dione (2,2,4,6,6,16,16-D <sub>7</sub> , 98%)	D7A4	Neat
DLM-10401	5-Androsten-3 $\beta$ ,17 $\beta$ -diol (16,16,17-D <sub>3</sub> , 98%) CP 95%	Adiol	Neat
CLM-9135	4-Androstene-3,17-dione (2,3,4- <sup>13</sup> C <sub>3</sub> , 98%)	AN	Neat
DLM-8330	4-Androstene-3,17-dione (2,2,4,6,6-D <sub>5</sub> , 98%)	A4	Neat
DLM-7976	4-Androstene-3,17-dione (2,2,4,6,6,16,16-D <sub>7</sub> , 97%)	A4	Neat
DLM-7937	Androsterone (5 $\alpha$ -androstan-3 $\alpha$ -ol-17-one) (16,16-D <sub>2</sub> , 98%)	AN	Neat
DLM-10402	Androsterone (5 $\alpha$ -androstan-3 $\alpha$ -ol-17-one) (2,2,4,4-D <sub>4</sub> , 98%) CP 95%	AN	Neat
DLM-9137	Androsterone glucuronide, sodium salt (2,2,4,4-D <sub>4</sub> , 98%)	AN	Neat
CLM-10549	Dehydroepiandrosterone (2,3,4- <sup>13</sup> C <sub>3</sub> , 99%)	DHEA	Neat
DLM-7714	Dehydroepiandrosterone (16,16-D <sub>2</sub> , 97%)	DHEA	Neat
DLM-8049	Dehydroepiandrosterone (2,2,3,4,4,6-D <sub>6</sub> , 98%) CP 97%	DHEA	Neat
CLM-10784	Dehydroepiandrosterone sulfate, sodium salt (2,3,4- <sup>13</sup> C <sub>3</sub> , 98%)	DHEAS	Neat
DLM-8701	Dehydroepiandrosterone sulfate, sodium salt (16,16-D <sub>2</sub> , 97%)	DHEAS	Neat
DLM-8337	Dehydroepiandrosterone sulfate, sodium salt·2H <sub>2</sub> O (2,2,3,4,4,6-D <sub>6</sub> , 95%)	DHEAS	Neat
DLM-3023	Dihydrotestosterone (16,16,17-D <sub>3</sub> , 98%)	DHT	Neat
CLM-9146	5 $\alpha$ -Dihydrotestosterone (2,3,4- <sup>13</sup> C <sub>3</sub> , 99%) CP 97%	DHT	Neat
D-077-1ML	5 $\alpha$ -Dihydrotestosterone (16,16,17-D <sub>3</sub> , 98%)	DHT	100 $\mu$ g/mL in methanol
DLM-9041	5 $\alpha$ -Dihydrotestosterone (2,2,4,4-D <sub>4</sub> , 98%) CP 95%	DHT	Neat
CLM-11416	Epitestosterone (2,3,4- <sup>13</sup> C <sub>3</sub> , 98%) CP 95%	EpiT	Neat

Continued ➤

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Catalog No.	Description	Example Abbrev.	Concentration
DLM-11248	11-Ketoandrostenedione (D <sub>10</sub> , 90%) CP 95%	11-KA4	Neat
DLM-10395	11-Ketotestosterone (16,16,17-D <sub>3</sub> , 98%) CP 95%	11-KT	Neat
DLM-3979	19-Nortestosterone (16,16,17-D <sub>3</sub> , 98%)	NT	Neat
CLM-9164	Testosterone (2,3,4- <sup>13</sup> C <sub>3</sub> , 99%)	T	Neat
DLM-683	Testosterone (1,2-D <sub>2</sub> , 98%)	T	Neat
DLM-6224	Testosterone (16,16,17-D <sub>3</sub> , 98%)	T	Neat
DLM-8085	Testosterone (2,2,4,6,6-D <sub>5</sub> , 98%)	T	Neat
COLM-9061-1.2	Testosterone (3,4- <sup>13</sup> C <sub>2</sub> , 99%; 17- <sup>18</sup> O, 98%)	T	100 µg/mL in MeCl
DLM-8265	Testosterone diacetate (testosterone-D <sub>4</sub> , acetate methyl-D <sub>6</sub> , 98%)	T	Neat

## Estrogens and Derivatives

Catalog No.	Description	Example Abbrev.	Concentration
DLM-170	Diethylstilbestrol ( <i>cis/trans</i> mix) (ring-3,3',5,5'-diethyl-1,1,1',1'-D <sub>8</sub> , 98%)	DES	Neat
CLM-803	Estradiol (3,4- <sup>13</sup> C <sub>2</sub> , 99%)	E2	Neat
DLM-3694	Estradiol (16,16,17-D <sub>3</sub> , 98%) CP 95%	E2	Neat
DLM-2487	Estradiol (2,4,16,16-D <sub>4</sub> , 95-97%)	E2	Neat
CLM-10404	Estradiol undecanoate (2,3,4- <sup>13</sup> C <sub>3</sub> , 98%) CP 95%	E2	Neat
CLM-7936	DL-Estradiol (13,14,15,16,17,18- <sup>13</sup> C <sub>6</sub> , 99%)	E2	Neat
CLM-9147	Estriol (16α-hydroxyestradiol) (2,3,4- <sup>13</sup> C <sub>3</sub> , 99%)	E3	Neat
DLM-8586	Estriol (2,4,16-D <sub>3</sub> , 98%) CP 96%	E3	Neat
DLM-8343	Estriol (2,4,17-D <sub>3</sub> , 98%) CP 96%	E3	Neat
DLM-8583	Estriol (2,4,16,17-D <sub>4</sub> , 98%) CP 95%	E3	Neat
CLM-673	Estrone (3,4- <sup>13</sup> C <sub>2</sub> , 99%)	E1	Neat
CLM-9148	Estrone (2,3,4- <sup>13</sup> C <sub>3</sub> , 99%)	E1	Neat
DLM-3976	Estrone (2,4,16,16-D <sub>4</sub> , 97%)	E1	Neat
CLM-7935	DL-Estrone (13,14,15,16,17,18- <sup>13</sup> C <sub>6</sub> , 99%) CP 95%	E1	Neat
CLM-8033	DL-Estrone 3-methyl ether (13,14,15,16,17,18- <sup>13</sup> C <sub>6</sub> , 99%)	3-MeE1	Neat
CLM-3375-1.2	Ethinylestradiol (20,21- <sup>13</sup> C <sub>2</sub> , 99%)	EE	100 µg/mL in acetonitrile
DLM-4691	17α-Ethinylestradiol (2,4,16,16-D <sub>4</sub> , 97-98%)	EE2	Neat
CLM-8012	DL-2-Hydroxyestradiol (13,14,15,16,17,18- <sup>13</sup> C <sub>6</sub> , 99%)	2-OHE2	Neat
CLM-8011	DL-2-Hydroxyestrone (13,14,15,16,17,18- <sup>13</sup> C <sub>6</sub> , 99%)	2-OHE1	Neat
CLM-8016	DL-2-Hydroxyestrone-3-methyl ether (13,14,15,16,17,18- <sup>13</sup> C <sub>6</sub> , 99%)	3-MeOHE1	Neat
CLM-8013	DL-4-Hydroxyestrone (13,14,15,16,17,18- <sup>13</sup> C <sub>6</sub> , 99%) CP 97%	4-OHE1	Neat
CLM-9153	16α-Hydroxyestrone (2,3,4- <sup>13</sup> C <sub>3</sub> , 99%)	16α-OHE1	Neat
CLM-8015	DL-2-Methoxyestradiol (13,14,15,16,17,18- <sup>13</sup> C <sub>6</sub> , 99%)	2-ME2	Neat
CLM-8019	DL-4-Methoxyestradiol (13,14,15,16,17,18- <sup>13</sup> C <sub>6</sub> , 99%)	4-ME2	Neat
CLM-8014	DL-2-Methoxyestrone (13,14,15,16,17,18- <sup>13</sup> C <sub>6</sub> , 99%)	2-ME1	Neat
CLM-8017	DL-4-Methoxyestrone (13,14,15,16,17,18- <sup>13</sup> C <sub>6</sub> , 99%)	4-ME1	Neat
DLM-7457	Sodium 17β-estradiol 3-sulfate (2,4,16,16-D <sub>4</sub> , 98%) stabilized with 50% Tris w/w	E2	Neat
DLM-7456	Sodium estrone 3-sulfate (2,4,16,16-D <sub>4</sub> , 98%) stabilized with 50% Tris w/w	E1	Neat

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## Progestins and Derivatives

Catalog No.	Description	Example Abbrev.	Concentration
DLM-7206	17 $\alpha$ -Hydroxypregnenolone (21,21,21-D <sub>3</sub> , 97%)	17 $\alpha$ -P5	Neat
CDLM-9154	17 $\alpha$ -Hydroxypregnenolone (20,21- <sup>13</sup> C <sub>2</sub> , 98%; 16,16-D <sub>2</sub> , 98%)	17 $\alpha$ -P5	Neat
CLM-9157	17 $\alpha$ -Hydroxyprogesterone (2,3,4- <sup>13</sup> C <sub>3</sub> , 98%)	17-OHP	Neat
H-096	17 $\alpha$ -Hydroxyprogesterone (2,2,4,6,6,21,21,21-D <sub>8</sub> , 98%)	17-OHP	100 $\mu$ g/mL in methanol
DLM-6598	17 $\alpha$ -Hydroxyprogesterone (2,2,4,6,6,21,21,21-D <sub>8</sub> , 98%)	17-OHP	Neat
DLM-2294	5 $\beta$ -Pregnan-3 $\alpha$ -ol-20-one (17,21,21,21-D <sub>4</sub> , 96-98%)	ALLO	Neat
CLM-10010-C	4-Pregnen-21-ol-3,20-dione (2,3,4- <sup>13</sup> C <sub>3</sub> , 99%)	11-DB	100 $\mu$ g/mL in methanol
DLM-11249	4-Pregnen-21-ol-3,20-dione (2,2,6,6,17,21,21-D <sub>7</sub> , 96%)	11-DB	Neat
CLM-10414	Progesterone (2,3,4,20,21- <sup>13</sup> C <sub>5</sub> , 99%)	P or P4	Neat
DLM-7953	Progesterone (2,2,4,6,6,17 $\alpha$ ,21,21,21-D <sub>9</sub> , 98%)	P or P4	Neat

### Example References

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