

Testosterone (Testo) ELISA Kit

- Citations>54
- Cumulative IF>150

Testosterone is a steroid hormone secreted by male testes or female ovaries. The adrenal gland also secretes a small amount of testosterone, which has two effects on humans and other vertebrates: directly or in the form of serum dihydrotestosterone (DHT) to activate androgen receptors; and converted to estradiol to activate some estrogen receptors. Free testosterone is transported to the cytoplasm of target tissue cells, binds to androgen receptors, or is converted to serum dihydrotestosterone (DHT) by 5 α -reductase. DHT also binds to androgen receptors (which are more stable, and the male hormone intensity of DHT is about 2.5 times that of testosterone). Testosterone receptors or serum dihydrotestosterone receptors undergo structural changes that allow them to enter the nucleus and bind to specific nucleotides in chromosomal DNA. The binding region is called hormone response element (HRE), which affects the replication of certain genes and produces male hormone effects. Testosterone plays an important role in maintaining muscle strength and quality, maintaining bone density and strength, refreshing and improving physical fitness. It is an important indicator of reproductive development and growth of human body and vertebrates.

1.Cloud-Clone Testo target related products

Target	Product No.	Product Name	Species
Testo	CEA458Ge	ELISA Kit for Testosterone (Testo)	General

2.Excellent Citations of Testo target related products (Excerpt)

Product No.	Species	Journal	IF	Pubmed ID	Institute
CEA458Ge	General	EMBO Molecular Medicine	9.249	28336389	Key Laboratory and Unit of Infertility in Chinese Medicine, First Affiliated Hospital, Heilongjiang University of Chinese Medicine, 150040 Harbin, China
CEA458Ge	General	Environmental Pollution	5.099	27838061	Ministry of Education Key Laboratory of Environmental Remediation & Ecosystem Health, College of Environmental and Resource Sciences, Zhejiang University
CEA458Ge	General	Stem Cells Translational Medicine	4.929	30569668	Department of Urology, Nanjing First Hospital, Nanjing Medical University
CEA458Ge	General	Journal of Materials Chemistry B	4.872	10.1039/C3TB20693A	Advanced Polymer & Nanomaterial Laboratory, Department of Chemical Sciences
CEA458Ge	General	Journal of Endocrinology	4.498	25770118	Laboratory of Cardiovascular Internal Medicine Department First Affiliated Hospital, Harbin Medical University
CCA458Ge	General	Fertility and Sterility	4.426	23954356	Reproductive Medicine Center, the First Affiliated Hospital of Sun Yat-Sen University
CEA458Ge	General	Environmental Pollution	4.358	29525625	Department of Epidemiology and Health Statistics, Zhejiang University School of Public Health
CEA458Ge	General	Scientific Reports	4.259	27461373	Department of Obstetrics and Gynecology, Key Laboratory and Unit of Infertility in Chinese Medicine, First Affiliated Hospital, Heilongjiang University of Chinese Medicine
CEA458Ge	General	Journal of Endocrinology	4.012	29535146	Department of Physiology/ Endocrinology Institute of Neuroscience and Physiology, The Sahlgrenska Academy, University of Gothenburg

Table 4
Reproductive hormone concentrations in the research population (n = 77).

Reproductive hormones	N	Mean ± SD	Percentiles		
			25	50	75
FSH (mIU mL ⁻¹)	77	12.2 ± 9.80	3.68	9.57	19.9
LH (mIU mL ⁻¹)	77	21.4 ± 19.0	5.25	18.3	30.1
Testo (ng mL ⁻¹)	77	7.17 ± 9.54	0.861	5.25	10.83
AMH (pg mL ⁻¹)	77	1056 ± 719	486	1023	1408
E2 (ng mL ⁻¹)	77	2.60 ± 2.19	1.06	2.13	3.72

Figure. Concentration of reproductive hormones in the umbilical cord serum. (Weiping Liu, 2017)

(Product No.: CEA458Ge Sample type: serum)

	Intra-assay % CV	Inter-assay % CV
FSH	6.3	7.4
LH	6.9	7.7
E2	6.2	7.4
P4	6.3	7.4
Total T	5.9	6.6
A4	6.0	7.4
DHT	4.2	7.5
SHBG	6.6	7.4
Insulin	6.4	7.5

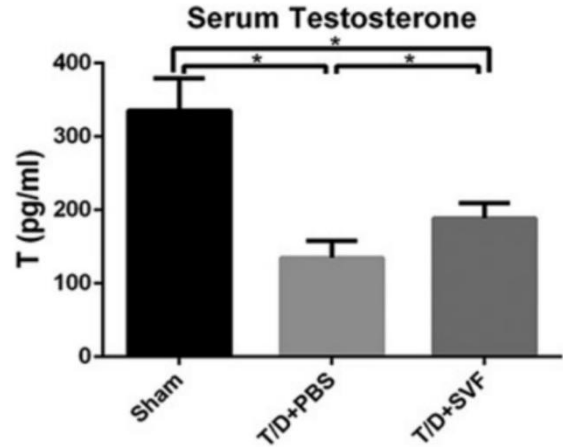


Figure. Serum concentrations of gonadotropins, steroid hormones, sex hormone-binding globulin, and insulin were determined using ELISA kits. (Yuehui Zhang, 2017)

(Product No.: CEA458Ge Sample type: serum)

Figure. Serum MDA, T, FSH, and LH was evaluated by enzyme-linked immunosorbent assay in sham, T/D + PBS, and T/D + SVF groups at 7 days after surgery. (Lihua Zhou, 2019)

(Product No.: CEA458Ge Sample type: serum)

Table 2
Hormone levels in umbilical cord serum (n = 76).

Hormone levels	GM	mean ± SD	Median	IQR
E2 (ng mL ⁻¹)	1.82	2.61 ± 2.19	2.13	1.07–3.68
FSH (mIU mL ⁻¹)	8.2	12.3 ± 9.8	9.6	3.7–19.5
LH (mIU mL ⁻¹)	9.3	21.4 ± 19.1	18.4	5.5–29.5
T (ng mL ⁻¹)	3.30	7.17 ± 9.54	5.26	0.86–10.70
AMH (ng mL ⁻¹)	0.75	1.06 ± 0.72	1.02	0.50–1.40
T3 (ng mL ⁻¹)	0.27	1.47 ± 2.77	0.44	0.07–1.19
T4 (µg mL ⁻¹)	1.05	4.09 ± 7.21	1.61	0.37–3.50
TSH (ng mL ⁻¹)	0.32	1.65 ± 3.33	0.33	0.07–0.98

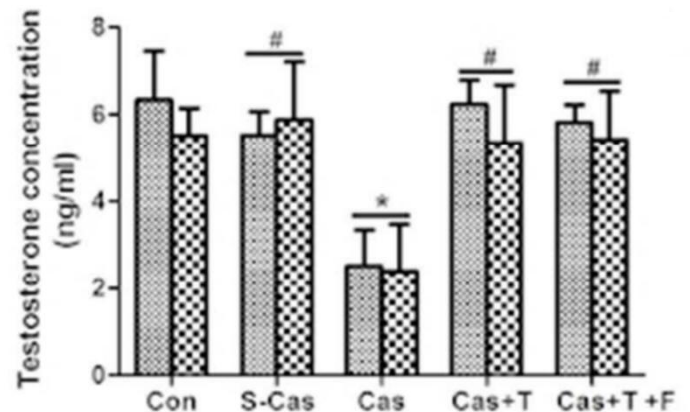


Figure. Hormone levels in umbilical cord serum (n =76). (Mengling Tang, 2018)

(Product No.: CEA458Ge Sample type: serum)

Figure. Serum testosterone levels (A) and estradiol levels (B) at 2 and 4 weeks after castration. (Lu Fu, 2017)

(Product No.: CEA458Ge Sample type: serum)

3.Citation statistics of Testo target related products (Excerpt)

Title	Journal	Product No.
Metformin Ameliorates Uterine Defects in a Rat Model of Polycystic Ovary Syndrome	EMBO Molecular Medicine	CEA458Ge

Environmental exposure to polycyclic aromatic hydrocarbons (PAHs): The correlation with and impact on reproductive hormones in umbilical cord serum	Environmental Pollution	CEA458Ge
Protective Effects of Uncultured Adipose - Derived Stromal Vascular Fraction on Testicular Injury Induced by Torsion - Detorsion in Rats	Stem Cells Translational Medicine	CEA458Ge
Nanocomposites of bio-based hyperbranched polyurethane/funtionalized MWCNT as non-immunogenic, osteoconductive, biodegradable and biocompatible scaffolds in bone tissue engineering	Journal of Materials Chemistry B	CEA458Ge
Testosterone replacement attenuates mitochondrial damage in a rat model of myocardial infarction	Journal of Endocrinology	CEA458Ge
Growth differential factor-9 inhibits testosterone production in mouse theca interstitial cells	Fertility and Sterility	CCA458Ge
Prenatal exposure to polychlorinated biphenyl and umbilical cord hormones and birth outcomes in an island population	Environmental Pollution	CEA458Ge
Molecular characterization of insulin resistance and glycolytic metabolism in the rat uterus	Scientific Reports	CEA458Ge
Uterine progesterone signaling is a target for metformin therapy in polycystic ovary syndrome	Journal of Endocrinology	CEA458Ge
Brain - derived neurotrophic factor: A steroidogenic regulator of Leydig cells	Journal of Cellular Physiology	CEA458Ge
Exposure to tris (1, 3-dichloro-2-propyl) phosphate for Two generations decreases fecundity of zebrafish at environmentally relevant concentrations	Aquatic Toxicology	CEA458Ge
Testosterone deficiency prevents left ventricular contractility dysfunction after myocardial infarction	Molecular and Cellular Endocrinology	CEA458Ge
Crocetin attenuates DHT-induced polycystic ovary syndrome in mice via revising kisspeptin neurons	Biomedicine & Pharmacotherapy	CEA458Ge
Resveratrol attenuates metabolic, sperm, and testicular changes in adult Wistar rats fed a diet rich in lipids and simple carbohydrates	Asian Journal of Andrology	CEA458Ge
Overexpression of PRL7D1 in Leydig Cells Causes Male Reproductive Dysfunction in Mice	Int J Mol Sci.	CEA458Ge
Preparation and evaluation of a phospholipid-based injectable gel for the long term delivery of leuprolide acetaterrh	Acta Pharmacologica Sinica	CEA458Ge
deficiency leads to testicular dysfunction and altered expression of genes involved in cell communication, chromatin reorganization, spermatogenesis, and ...	Molecular Reproduction and Development	CEA458Ge
Perfluorooctane sulfonate effects on the reproductive axis in adult male rats	Environmental Research	CEA458Ge
Insulin Receptor Substrate 2 Is Required for Testicular Development	Plos one	CEA458Ge
Association between Polycystic Ovary Syndrome and Cavia (Guinea pig)t Microbiota	Plos One	CEA458Ge
Diets rich in saturated and polyunsaturated fatty acids induce morphological alterations in the rat ventral prostate	PLoS One	CEA458Ge
Testosterone Replacement Modulates Cardiac Metabolic Remodeling after Myocardial Infarction by UpreCavia (Guinea pig)lating PPAR α	PPAR Research	CEA458Ge
Effect on the H20 gene methylation of sperm and organs of offspring after chlorpyrifos - methyl exposure during organogenesis period	Environ Toxicol	CEA458Ge
Carbamazepine-exposure during gestation and lactation affects pubertal onset and spermatic parameters in male pubertal offspring	Reproductive Toxicology	CEA458Ge
Testosterone Replacement Modulates Cardiac Metabolic Remodeling after Myocardial Infarction by Upregulating PPAR α	PPAR Research	CEA458Ge
Toxic effects of Tripterygium wilfordii Hook F on the reproductive system of adolescent male rats	Biomedicine & Pharmacotherapy	CEA458Ge
The impact of maternal consumption of cafeteria diet on reproductive function in the	Physiology & Behavior	CEA458Ge

offspring

Abnormality of Klotho Signaling Is Involved in Polycystic Ovary Syndrome	Reproductive Sciences	CEA458Ge
Critical function of RA-GEF-2/Rapgef6, a guanine nucleotide exchange factor for Rap1, in mouse spermatogenesis	Biochemical and Biophysical Research Communications	CEA458Ge
DHEA-induced ovarian hyperfibrosis is mediated by TGF- β signaling pathway	Journal of Ovarian Research	CEA458Ge
Recovery of fertility in quinestril-treated or diethylstilbestrol-treated mice: Implications for rodent management.	Integrative Zoology	CEA458Ge
Eicosapentaenoic Acid Improves Polycystic Ovary Syndrome in Rats via Sterol Regulatory Element-Binding Protein 1 (SREBP-1)/Toll-Like Receptor 4 (TLR4) ...	Medical Science Monitor	CEA458Ge
Expression of androgen-producing enzyme genes and testosterone concentration in AnCavia (Guinea pig)s and Nellore heifers with high and low ovarian follicle count	Theriogenology	CEA458Ge
Prostaglandin E2 triggers cytochrome P450 17 α hydroxylase overexpression via signal transducer and activator of transcription 3 phosphorylation and promotes ...	Oncology Letters	CEA458Ge
Beneficial effects of Heqi san on rat model of polycystic ovary syndrome through the PI3K/AKT pathway	DARU-Journal of Pharmaceutical Sciences	CEA458Ge
Effects of treatment with Hypoxis hemerocallidea extract on sexual behaviour and reproductive parameters in male rats.	Andrologia	CEA458Ge
Impaired steroidogenesis in the testis of leptin-deficient mice (ob/ob -/-)	Acta histochemica	CEA458Ge
Targeted disruption of the mouse testis-enriched gene Znf230 does not affect spermatogenesis or fertility	Genet Mol Biol.	CEA458Ge
Effects of Tadalafil on Hemorrhagic Cystitis and Testicular Dysfunction Induced by Cyclophosphamide in Rats	Urologia internationalis	CEA458Ge
Androgen Deprivation Induces Bladder Histological Abnormalities and Dysfunction via TGF- β in Orchiectomized Mature Rats	The Tohoku Journal of Experimental Medicine	CEA458Ge
Effects of sericin on the testicular growth hormone/insulin-like growth factor-1 axis in a rat model of type 2 diabetes	Int J Clin Exp Med	CEA458Ge
The effect of sertraline, paroxetine, fluoxetine and escitalopram on testicular tissue and oxidative stress parameters in rats.	International Braz J Urol	CEA458Ge
The effect of kisspeptin on spermatogenesis and apoptosis in rats.	Turkish journal of medical sciences	CEA458Ge
Lard and/or canola oil-rich diets induce penile morphological alterations in a rat model.	Acta Cir Bras.	CEA458Ge
Demographic, clinical and lifestyle predictors for severity of erectile dysfunction and biomarkers level in Malaysian patients	Brazilian Journal of Pharmaceutical Science	CEA458Ge
The Angiogenic Effect of Testosterone Supplementation on Brain of Aged Mice.	Kafkas Universitesi Veteriner Fakultesi Dergisi	CEA458Ge
The effect of kisspeptin on spermatogenesis and apoptosis in rats	TURKISH JOURNAL OF MEDICAL SCIENCES	CEA458Ge
Tanshinone IIA attenuates estradiol-induced polycystic ovarian syndrome in mice by ameliorating FSHR expression in the ovary	Experimental and Therapeutic Medicine	CEA458Ge

(For more information, please visit: www.cloud-clone.com/www.uscnk.cn)

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