

Dedication to endocrine health?

**We**  
**I.V.D.O**   
**that** <sup>TM</sup>

**Hormones**  
catalog

**Medix Biochemica**

# Introduction

Hormones are a diverse group of signaling molecules produced mainly by the endocrine glands. They control a vast array of essential processes ranging from reproduction, sexual differentiation, development, and growth to the regulation of metabolism and maintenance of cellular homeostasis. Due to the large diversity of cellular and bodily processes controlled by hormones, there are also various disorders related to defective endocrine functions. For example, several tumors, including thyroid, testicular and ovarian tumors, are assumed to be endocrine-dependent and have the potential to promote their own growth by excess hormone production.

Clinical manifestations of endocrine disorders, however, are often indefinite and nonspecific. Accordingly, laboratory measurements are usually required to diagnose disease and to monitor therapeutic outcomes. Since hormone levels in bodily fluids are relatively low, reliable quantification of hormones often require sensitive assays, which are usually immunoassays based on monoclonal

antibodies that specifically recognize the target analyte. In addition to disorders and malignancies, hormone levels can also be used to monitor normal bodily processes. For example, immunoassays for human chorionic gonadotropin (hCG) are used for pregnancy detection and monitoring, while different hCG forms can also be used to detect trophoblastic tumors or pregnancy-related disorders. Human luteinizing hormone (LH) is often used for predicting ovulation, but it can also be used to investigate menstrual irregularities or to diagnose puberty-related disorders.

Medix Biochemica has over 30 years of experience in producing premium-quality monoclonal antibodies for detection of hCG, LH, and other hormones as well as native antigens ideal for QC material production. Our optimized, industrial-scale in vitro production methods, certified batch-to-batch consistency, as well as expert customer service have made Medix Biochemica one of the most important critical raw material suppliers for the IVD community.



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Product	Concentration mg/mL *	Catalog number
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### Alpha Subunit

The alpha subunit of LH, FSH, TSH, and HCG is identical. The biological activity of these hormones is evoked by the unique beta subunit.

<b>MONOCLONAL ANTIBODIES</b>				
Product	Concentration mg/mL *	Catalog number		
Alpha subunit	5501	1	100035	
	5503	1	100037	
	6601	5	100066	

### Anti-Müllerian Hormone (AMH)

is a glycoprotein produced by the Sertoli cells of the testis and by the granulosa cells of the ovary. It is used as biomarker to assess ovarian reserve levels.

<b>MONOCLONAL ANTIBODY</b>				
Product	Concentration mg/mL *	Catalog number		
AMH	11301	5	100756	
	11302	5	100757	
	11303	5	100758	
	11304	5	100759	
	11305	5	100760	
	11309	5	100840	

### Chorionic Gonadotropin (hCG)

is a glycoprotein hormone produced during pregnancy and commonly utilized for early pregnancy testing. Testing for hCG may also be done when diagnosing or monitoring some tumors.

<b>MONOCLONAL ANTIBODIES</b>				
Product	Concentration mg/mL *	Catalog number		
hCG beta	5004	1	100004	
	5006	5	100005	
	5008	5	100006	
	5011	1	100009	
	5014	5	100011	
	5016	5	100013	
hCG complex	5009	5	100008	
hCG free beta	5012	5	100368	

### Estradiol (E2)

is a steroid, and the primary female sex hormone produced by the ovaries. It prepares the uterus for implantation of the fertilized ovum and promotes maintenance of the female reproductive organs. Serum estradiol is measured in women and it primarily reflects the activity of the ovaries.

<b>MONOCLONAL ANTIBODIES</b>				
Product	Concentration mg/mL *	Catalog number		
E2	10450	>1	700011	
<b>SYNTHETIC ANTIGEN</b>				
E2 6-HS antigen		1 mg	710050	

Product	Concentration mg/mL *	Catalog number
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### Estriol (E3)

is one of the three major endogenous estrogens, the others being estradiol (E2) and estrone. During pregnancy, estriol is synthesized with high quantities by the placenta and by the liver of fetus. Estriol measurement from maternal blood or urine can be used to assess the health and well-being of fetus during the second trimester of pregnancy.

<b>MONOCLONAL ANTIBODY</b>				
Product	Concentration mg/mL *	Catalog number		
E3	RC10601	140022		

### Follicle-stimulating Hormone (FSH)

regulates the development, growth, pubertal maturation, and reproductive processes of the body. It is used to diagnose problems in the reproductive system.

<b>MONOCLONAL ANTIBODY</b>				
Product	Concentration mg/mL *	Catalog number		
FSH	6602	5	100067	

### Growth Hormone (GH)

is a protein hormone used clinically to diagnose and treat children's growth disorders and adult growth hormone deficiency.

<b>MONOCLONAL ANTIBODIES</b>				
Product	Concentration mg/mL *	Catalog number		
GH	5801	1	100041	
	5802	1	100042	

### Inhibin

**Inhibin alpha** binds to either beta A or beta B subunit, to form inhibin A, or inhibin B, respectively. Inhibin A tests can be used in the diagnostics of Down syndrome. Inhibin B is a marker of male infertility.

<b>MONOCLONAL ANTIBODIES</b>				
Product	Concentration mg/mL *	Catalog number		
Inhibin alpha	9401	5	100711	

**Inhibin beta A** can form dimers with itself, with inhibin alpha, or inhibin beta B. The dimerization product with inhibin alpha subunit is called inhibin A. Assessment of inhibin A concentration is used in prenatal screening for Down syndrome.

<b>MONOCLONAL ANTIBODIES</b>				
Product	Concentration mg/mL *	Catalog number		
Inhibin beta A	9504	5	100709	

Product	Concentration mg/mL *	Catalog number
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### Luteinizing Hormone (LH)

is essential for reproduction in both sexes. LH is measured to detect abnormalities in sexual development and reproductive functions.

MONOCLONAL ANTIBODIES		
LH	5301	5 100016
	5302	1 100018
	5303	5 100588
	5304	5 100022

### Progesterone (PR)

is a steroid hormone needed for normal reproduction. Progesterone levels are monitored during pregnancy and for an indication of ovarian cancer.

MONOCLONAL ANTIBODIES		
PR	1801	5 100248
	1802	5 100249
	1803	5 100250
	1805	5 100252

### Prolactin (PRL)

is a peptide hormone primarily associated with lactation. Prolactin is usually measured when checking for pituitary tumors or the cause of abnormal milk production.

MONOCLONAL ANTIBODIES		
PRL	5601	5 100967
	5602	5 100360

### Sex Hormone-Binding Globulin (SHBG)

binds to sex hormones, specifically testosterone and estradiol. Abnormally low or high SHBG levels are used to diagnose several non-physiological conditions.

MONOCLONAL ANTIBODIES		
SHBG	6001	5 100539
	6002	5 100540
	6007	5 100569

Product	Source	Purity	Form	Catalog number
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### Alpha Subunit

NATIVE ANTIGEN				
Alpha subunit	Human Urine	High Purity	Lyophilized	325-12

### Anti-Müllerian Hormone (AMH)

RECOMBINANT ANTIGEN				
AMH	Recombinant	Purified	Liquid	431-67

### Chorionic Gonadotropin (HCG)

NATIVE ANTIGENS				
hCG	Human Urine	High Purity	Lyophilized	189-11
		Purified	Lyophilized	189-10
beta-hCG	Human Urine	High Purity	Lyophilized	325-11

### Follicle Stimulating Hormone (FSH)

NATIVE ANTIGENS				
FSH	Human Pituitary Gland	High Purity	Lyophilized	996-11

### Growth Hormone (GH)

NATIVE ANTIGENS				
hGH	Human Pituitary Gland	High Purity	Lyophilized	996-21

### Luteinizing Hormone (LH)

NATIVE ANTIGENS				
LH	Human Pituitary Gland	High Purity	Lyophilized	996-31

### Progesterone (P4)

ANTIGEN CONJUGATE				
P4	BSA Conjugate	High Purity	Liquid	498-20
17-OH Progesterone	BSA Conjugate	High Purity	Liquid	498-25

Product	Source	Purity	Form	Catalog number
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### Prolactin (PRL)

**NATIVE ANTIGENS**

PRL	Human Pituitary Gland	High Purity	Lyophilized	996-41
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### Sex Hormone Binding Globulin (SHBG)

**NATIVE ANTIGEN**

SHBG	Human Serum	High Purity	Lyophilized	527-30
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### Testosterone-19

**ANTIGEN CONJUGATE**

Testosterone-19	BSA Conjugate	High Purity	Liquid	528-01
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### Testosterone-3

**ANTIGEN CONJUGATE**

Testosterone-3	BSA Conjugate	High Purity	Liquid	528-03
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### Thyroid Stimulating Hormone (TSH)

**NATIVE ANTIGENS**

TSH	Human Pituitary Gland	High Purity	Lyophilized	996-51
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Product	Source	Applications	Matched pairs	Catalog number
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### Adrenocorticotrophic Hormone (ACTH)

**MONOCLONAL ANTIBODY**

Adrenocorticotrophic Hormone (ACTH) Antibody	Mouse	ELISA, IHC, WB	HM889 (detection)	HM888
Adrenocorticotrophic Hormone (ACTH) Antibody	Mouse	ELISA, IHC, WB	HM888 (capture)	HM889

### Aldosterone

**MONOCLONAL ANTIBODY**

Aldosterone Antibody	Mouse	ELISA, Lateral Flow	LA427 (capture)	HM652
Aldosterone-BSA Antigen		ELISA, Lateral Flow	HM652 (detection)	LA427

### Anti-Mullerian Hormone (AMH)

**ANTIGEN**

Anti-Mullerian Hormone (AMH) Antigen >90%	E. coli	Lateral Flow, ELISA, CLIA	HM605, HM606, HM618, HM619, HM620 or HM621	LA387
Anti-Mullerian Hormone (AMH) Antigen >90%	E. coli	ELISA, CLIA	HM607 or HM608	LA388

### Cortisol

**MONOCLONAL ANTIBODY**

Cortisol Antibody	Mouse	ELISA	P91-92-91H (detection)	P01-92-94M-P
Cortisol-3-HRP Antigen		ELISA	P01-92-94M-P (capture)	P91-92-91H

### Dehydroepiandrosterone (DHEA0)

**MONOCLONAL ANTIBODY**

Dehydroepiandrosterone (DHEA0) Antibody	Mouse	ELISA, Lateral Flow	LA285 (capture)	HM379
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Product	Source	Applications	Matched pairs	Catalog number
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### Estradiol (E2)

**MONOCLONAL ANTIBODY**

Estradiol (E2) Antibody	Mouse	ELISA, Lateral Flow	LA429 (capture)	HM654
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**ANTIGEN**

Estradiol (E2)-6-BSA Antigen		ELISA, Lateral Flow	HM654 (detection)	LA429
Estradiol (E2)-6-HRP Antigen		ELISA		P91-92-22H

### Estriol (E3)

**ANTIGEN**

Estriol (E3)-6-HRP Antigen		ELISA		P91-92-32H
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### Estrone-3-Glucuronide (E1G)

**MONOCLONAL ANTIBODY**

Estrone-3-Glucuronide (E1G) Antibody	Mouse	ELISA, Lateral Flow	LA655 (capture)	HM1149
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### Luteinizing Hormone

**MONOCLONAL ANTIBODY**

Luteinizing Hormone $\alpha$ (LH $\alpha$ ) Antibody	Mouse	ELISA, Lateral Flow	HM241 (detection)	HM242
Luteinizing Hormone beta (LH-beta) Antibody	Mouse	ELISA	FA313 (detection)	FA309

Product	Source	Applications	Matched pairs	Catalog number
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### Pregnanediol Glucuronide (PDG)

**MONOCLONAL ANTIBODY**

Pregnanediol Glucuronide (PDG) Antibody	Mouse	ELISA, Lateral Flow	LA286 (capture)	HM386
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Pregnanediol Glucuronide (PDG) Antibody	Mouse	ELISA, Lateral Flow	LA286 (capture)	HM387
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**ANTIGEN**

Pregnanediol Glucuronide (PDG)-BSA Antigen		ELISA, Lateral Flow	HM386 or HM387 (detection)	LA286
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Pregnanediol Glucuronide (PDG) Antigen		Controls		LA495
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### Progesterone

**MONOCLONAL ANTIBODY**

Progesterone Antibody	Mouse	ELISA, Lateral Flow	LA330 (capture)	HM525
Progesterone Antibody	Mouse	ELISA, Lateral Flow	LA330 (capture)	HM524
Progesterone Antibody	Mouse	ELISA	P91-92-11H (detection)	P01-92-11M-P

**ANTIGEN**

Progesterone-BSA Antigen		ELISA, Lateral Flow	HM524, HM525, HM526	LA330
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### IGFBP-1

**MONOCLONAL ANTIBODY**

IGFBP-1 Antibody	Mouse	Lateral Flow, ELISA	HM1025 (detection)	HM1024
IGFBP-1 Antibody	Mouse	Lateral Flow, ELISA	HM1024 (capture)	HM1025

### Inhibin

**MONOCLONAL ANTIBODY**

Inhibin B Antibody	Mouse	ELISA	HM909 (capture)	HM910
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# Medix Biochemica Group

Medix Biochemica is a global, market-leading supplier of critical raw materials to the *in vitro* diagnostics (IVD) industry. Our mission is to enable IVD customers to deliver accurate results to billions of patients worldwide. By working in partnership with Medix Biochemica, IVD manufacturers can reduce their time to market through our industry-leading expertise which increases efficiencies and builds quality into their tests. We achieve this through our deep scientific know-how combined with the broadest and most relevant raw material portfolio and our relentless focus on quality.

Medix Biochemica Group employs more than 260 professionals worldwide. With headquarters in Finland, we serve our worldwide customers through our local teams in the US, Europe, and Asia. [www.medixbiochemica.com](http://www.medixbiochemica.com)

# Close to our global customers

We serve our global customers from our sites in Finland, the USA, France, Germany and China.



## The first-choice partner

- Focusing on IVD manufacturers' needs
- Capability to support customers across the globe
- Focus on new product development based on customer needs
- Efficient and scalable manufacturing capabilities



## Widest portfolio

- Monoclonal antibodies
- Antigens for immunoassay materials
- Molecular diagnostics reagents
- Enzymes for clinical chemistry controls
- Biochemicals and biologicals



## Highest quality

- ISO 13485 & FDA QSR compliance
- Batch to batch consistency
- Scalable production capability from milligrams to kilograms

# Our values



## We care

We put the customer first; we care for the people and the world around us.



## We dare

We are ambitious and innovative; we take risks and dare to win with our customers.



## We deliver

We commit to our customers and keep our promises.

## Get in touch

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# Medix Biochemica

Ordering and product information

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