

# Inhibin B Assays

Enzyme-Linked Immunoassay Kit



**Introduction:** Inhibin B is a dimeric hormone that is composed of alpha ( $\alpha$ ) and beta B ( $\beta$ B) subunits. The free alpha subunits usually do not have any physiological effect. Therefore, the bioactivity of the inhibins depends on the formation of a dimeric  $\alpha$ - $\beta$  structure, and only dimeric forms of inhibins are biologically active. Inhibins are protein hormones secreted by granulosa cells of the ovary in the female and sertoli cells of the testis in the male. They selectively suppress the secretion of pituitary follicle stimulating hormone (FSH) and also have local paracrine actions in the gonads. Inhibin B levels have been reported in sertoli cell function (potential marker for spermatogenesis and testicular function), and in studies of ovarian reserve and granulosa cell tumors.

Ansh Inhibin B ELISA captures the  $\beta$ B-subunit and sandwiches Inhibin B specifically by detecting the  $\alpha$ -subunit.

Inhibin B is an important and useful research tool for reproductive endocrinology research. We offer an expanding menu of the most specific and sensitive assays available for Inhibin B and other key factors that have important physiological roles in folliculogenesis.

## ANSH LABS ADVANTAGES

### Accurate

Native human Inhibin B calibrators.

### Specific

To ensure accurate quantitation of Inhibin B, we employ an in-the-well sample extraction step using a proprietary detergent and oxidant solution.

Sample Name	% Cross-reactivity
Activin A	ND
Activin B	ND
Activin AB	ND
Myostatin	ND
Follistatin 288	ND
Follistatin 315	ND
PSTL-3	ND
Inhibin A (WHO 91/624)	ND

### Expected Values

Sample	Age (Years)	N	Inhibin B (pg/mL)
Males	<0.04	21	68-373
	0.04-0.5	31	65*-488*
	0.58-7	31	26*-299*
	8-15	35	59*-298*
	16-30	37	70*-382*
	31-50	40	28*-267*
Females	>50	16	7-157
	0-1	37	10*-180*
	2-6	8	10-40
	7-12	21	<1-80
	14-42 Follicular Phase	57	9*-180*
	13-42 Luteal Phase	30	<1*-48*
	51-80	18	<1

### Native human Inhibin B calibrators

Optimized and stable after reconstitution up to 14 days at 2-8°C, one year at -20°C or colder and for up to three freeze-thaw cycles

### Analytical measurable ranges and sensitivities of:

- Inhibin B ELISA (AL-107): 12.7-1390 pg/mL and 1.6 pg/mL
- Ultra-Sensitive Inhibin B ELISA (AL-195): 3.7-42 pg/mL and 0.77 pg/mL

### Kit includes all reagents needed to run a 96-well plate, shipped at ambient temperatures and stored at 2-8°C

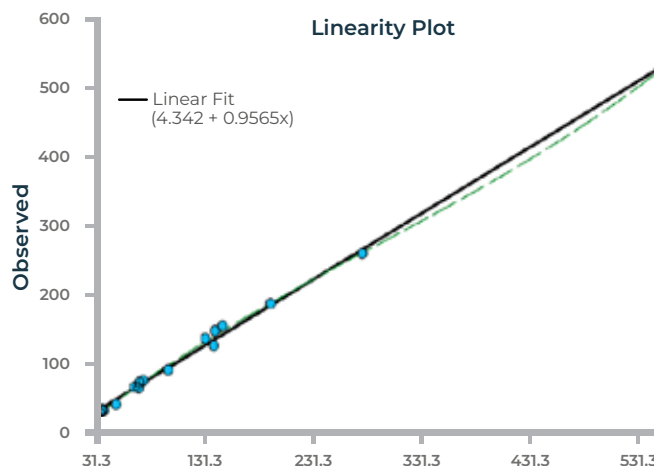
No need to buy and store additional reagents separately.

### Long shelf-life

Minimizing lot changes ensures long-term consistency and precision of results.

### Automation ready

Simple procedure is automatable on most robotic platforms.



# Inhibin B

# Product Listing

Inhibin B is a useful research and diagnostic tool in Reproductive Endocrinology related to:

- Oocyte quality
- Ovarian function assessment
- Spermatogenesis and testicular function

## ELISA 96 Wells

### Inhibin B

Method	Quantitative 3-step sandwich type immunoassay
Incubation Time	Total 3.5 hour incubation at room temperature
Approximate Dynamic Range	6 points, 12.7-1390 pg/mL
Sensitivity	1.6 pg/mL
Sample Size / Type	50 µL / Serum
Shelf-life	24 months
Catalog Number	AL-107 [RUO], AL-107-i [CE]

### Inhibin B (Ultra-sensitive)

Method	Quantitative 3-step sandwich type immunoassay
Incubation Time	Total 1.5 hour incubation at room temperature
Approximate Dynamic Range	6 points, 3.9-542 pg/mL
Sensitivity	0.77 pg/mL
Sample Size / Type	50 µL / Serum
Shelf-life	24 months
Catalog Number	AL-195 [RUO], AL-195-i [CE]

Parameters with “^” correspond to Ultrasensitive Inhibin-B  
Shelf-life and Sample size are same for both

## Related Assays

picoInhibin A	96-Well ELISA	AL-184
Inhibin A	96-Well ELISA	AL-123 [FDA, CE]
Inhibin Total	96-Well ELISA	AL-134
AMH, Ultra Sensitive	96-Well ELISA	AL-105 [CE]
picoAMH	96-Well ELISA	AL-124-r [RUO]
MenoCheck pico AMH	96-Well ELISA	AL-124 [FDA, CE]

\*Unless otherwise stated here, in our catalog, or other product documentation, these kits are intended for research use only and not for in vitro diagnostic purposes or therapeutic uses.

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### Reproductive Function

- Activin A [CE]
- Activin B
- Activin AB
- AFP
- AMH [CE]
- AMH, Dried Blood Spot [CE]
- AMH (PCOCheck™) [CE]
- picoAMH (MenoCheck®) [FDA, CE]
- BMP-15
- Estriol [FDA, CE]
- Follistatin
- Follistatin Like-3
- FSH
- FSH, Dried Blood Spot
- GDF-9
- GDF-9/BMP-15 Complex
- GDF-15, Total
- GDF-15, H-Specific
- Inhibin, Total
- Inhibin A [FDA, CE]
- picoInhibin A
- Inhibin A (OMQCheck™)
- Inhibin B [CE]
- Inhibin B, Ultra-Sensitive [CE]
- LH
- LH, Dried Blood Spot
- PAPP-A [CE]
- PAPP-A2 [CE]
- picoPAPP-A [CE]
- PLGF [CE]
- Prolactin [FDA, CE]
- Prolactin, Dried Blood Spot [CE]

### Metabolism

- C-Peptide of Insulin
- GIP, Intact
- GIP, Total
- Glucagon
- GLP-1
- GLP-2
- Glucagon [FDA, CE]
- Major Proglucagon Fragment
- Oxyntomodulin
- Proglucagon

### Growth Factors

- IGF-I, Free
- IGF-I, Total [FDA, CE]
- IGF-II
- IGFBP-2
- IGFBP-3, Intact
- IGFBP-3, Total
- IGFBP-4, Intact
- IGFBP-4, Total
- IGFBP-5
- picoL-6
- Stanniocalcin 2

### Species Specific Assays

- Activin B: Mouse, Rat
- AMH: Bovine, Canine, Equine, Feline, Mouse, Ovine, Porcine, Primate, Rat
- GDF-15: Bovine
- IGF-I, Free: Mouse, Rat
- IGF-I, Total: Mouse, Rat
- IGFBP-4, Intact : Mouse, Rat
- IGFBP-4, Total: Mouse, Rat
- Inhibin A: Canine, Equine, Rodent
- Inhibin B: Canine, Equine, Mouse
- Oxyntomodulin: Mouse, Rat
- PAPP-A: Mouse

### Specialty Controls

- AnshCheck AMH Tri-Level Controls [FDA, CE]
- AnshCheck Inhibin B Tri-Level Controls
- AnshCheck Maternal Screening Bi-Level Controls [FDA, CE]

### Neuronal Disorders

- MBP

\*\*Unless stated otherwise, products are for research use only.

### Customer Relations

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ISO 13485:2016

Ansh Labs is ISO certified for the design, development, manufacturing, services and distribution of reagents/ immunoassay kits for research and in vitro diagnostic applications.