

Inhibin B is a dimeric hormone that is composed of alpha (α) and beta B (β_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 α - β 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 β_B -subunit and sandwiches Inhibin B specifically by detecting the α -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 Advantage

Analytical measurable range of 12.7-1390 pg/mL
wide dynamic range and sensitivity to < 1.6 pg/mL

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

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 under different storage conditions

Long shelf-life

minimizing lot changes ensures long-term consistency and precision of results

Automation ready

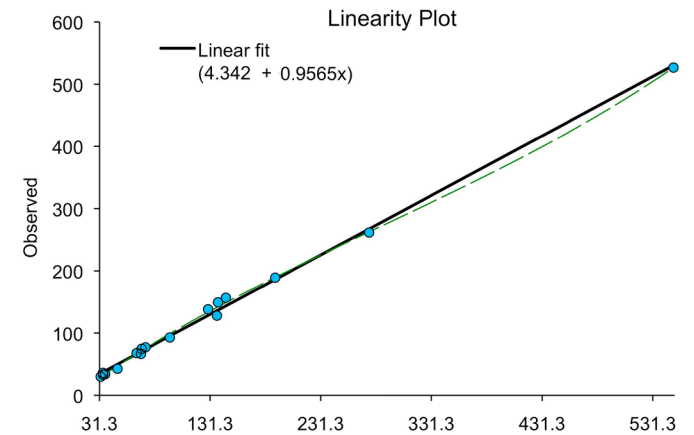
simple procedure is automatable on most robotic platforms



The Difference is in the Results. Go Ahead. Test Us!

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. This step is essential to destroy catalases and proteases present in samples, and to remove binding proteins and potential false positive result causing agents as reported by Evans and Groome (2001, Imperial College Press London, p. 11.)

Cross-reactant	Concentration	% Cross-reactivity
Inhibin A	100 ng/mL	ND
Activin A	50 ng/mL	ND
Activin B	50 ng/mL	0.04%
Activin AB	50 ng/mL	ND
AMH	50 ng/mL	ND

Reliable

Total imprecision of < 7.5% at concentrations greater than 50 pg/mL

Sample	ELISA			CLIA		
	Mean Conc.	Total	%CV	Mean Conc.	Total	%CV
	(pg/mL)	SD	%CV	(pg/mL)	SD	%CV
Pool 1	50.305	3.765	7.48	123.478	6.790	5.50
Pool 2	109.497	5.996	5.48	211.724	7.251	3.42
Pool 3	397.181	23.752	5.95	437.987	13.417	3.06

Inhibin B

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

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

	ELISA 96 Wells	CLIA 96 Wells
Method	Quantitative three-step sandwich type immunoassay	
Incubation Time	Total 3.5 hour incubation at room temperature	
Approximate Dynamic Range	6 points, 12.7-1390 pg/mL	6 points, 14-1344 pg/mL
Sensitivity	1.6 pg/mL	6.48 pg/mL
Sample Size / Type	50 µL / Serum, Plasma	50 µL / Serum, Plasma
Shelf-life	24 months	24 months

Ordering Information

Inhibin B	96-Well ELISA	AL-107*
Inhibin B	96-Well CLIA	AL-207*

* Unless otherwise stated 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



ISO 9001:2008
ISO 13485:2003

Additionally, we have proteins and many monoclonal antibodies to AMH, Inhibin B and other hormones in the TGF-beta superfamily.

Call us today or visit AnshLabs.com to see what's new in our lab.

Ansh Labs is ISO 13485 and ISO 9001 certified for design, development, manufacturing, services and distribution of reagents/immunoassay kits for research and *in vitro* diagnostic applications.

Product Listing*

- TGF-Beta Superfamily**
 - Activin A
 - Activin B
 - Activin AB (in development)
 - AMH
 - AMH, Dried Blood Spot
 - picoAMH
 - BMP-15 (in development)
 - Glycosylated Fibronectin
 - Follistatin
 - Follistatin Like 3
 - GDF-9 (in development)
 - Inhibin A
 - Inhibin B
 - Total Inhibin
 - BMP-15/GDF-9 Heterodimer Complex (in development)
- Glucagon Regulation**
 - C-Peptide of Insulin
 - GLP-1
 - GLP-2 (in development)
 - Glucagon
 - Oxyntomodulin
- Pappalysins Family**
 - PAPP-A
 - picoPAPP-A
 - PAPP-A / Stanniocalcin 2 Complex
 - PAPP-A2
- Growth Factors**
 - Bioactive IGF-I
 - Total IGF-I
 - IGF-II
 - IGFBP-2
 - Intact IGFBP-3
 - Total IGFBP-3
 - Intact IGFBP-4
 - Total IGFBP-4
 - IGFBP-5
 - Stanniocalcin 2
- Specialty Controls**
 - Ansh/Check AMH Tri-Level Controls
 - Ansh/Check Inhibin B Tri-Level Controls
- Species Specific Assays**
 - Activin B - Mouse
 - AMH - Bovine, Canine, Caprine, Equine, Mouse, Ovine, Porcine, Rat
 - IGF-I (Total) - Rat and Mouse
 - IGF-I (Bioactive) - Mouse, Rat
 - Inhibin A - Canine, Equine, Rodent
 - Inhibin B - Canine, Equine, Rodent
 - PAPP-A - Mouse
- Neuronal Disorders**
 - MBP

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The Difference is in the Results. **Go Ahead. Test Us!**

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