Insulin-like growth factor II (IGF-II) is a 7.5 kDa, 67 amino acid peptide, which is thought to mediate some of the actions of growth hormone (GH). IGF-II is synthesized as a prohormone, a polypeptide consisting of A, C, B, D and E domains. After post-translational modification, the mature IGF-II consists of the A, C, B and D domains, and is structurally homologous to IGF-I and proinsulin. Significant quantities of pro-IGF-II containing the E-peptide extension may also be secreted into the circulation.

The assay of plasma IGF-II is complicated by the presence of IGF-binding proteins, which may sequester IGF-II in the reaction mixture. Various methods have been devised to separate the IGF-II and IGF-binding proteins prior to assay. Size-exclusion gel chromatography in acid is considered to be optimal, but this procedure is not feasible for routine use. Acidification followed by ethanol or acetone precipitation of the IGF fraction gives results which are similar to acid-chromatography.

Ansh Labs Advantage

Direct Detection Method

Eliminates potential altering of sample matrix from size-exclusion chromatography or filtration methods

Calibration

Calibrated to the WHO IGF-II preparation NIBSC Code 96/538 v 4.0

Simple Procedure

Two-step sandwich assay with total 1.5 hour incubation at room temperature

Analytical measurable range of 20—1239 ng/mL

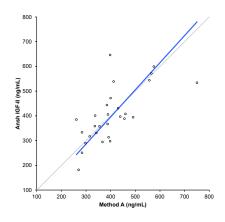
Sensitive to 1.33 ng/mL

AnshLabs_®

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

Accurate

The Ansh IGF-II ELISA has been compared to a Commercial IGF-II assay (Method A) using 28 serum samples in the range of 261 ng/mL to 750 ng/mL. Passing Bablok analysis of the results yielded the following Regression: Ansh IGF-II ELISA (AL-131) = 1.10 (Method A) - 43.31 (r=0.72; P<0.0001).



Specific

The monoclonal antibody pair used in the assay, as calculated by the interpolation of mean plus two standard deviations of 20 replicates of calibrator A (0 ng/mL) and calibrator B (20 ng/mL), is 1.328 ng/mL.

Cross-reactant	Concentration (ng/mL)	% Cross-reactivity
IGFBP-2	1000	ND
IGFBP-3	1000	ND
IGFBP-4	1000	ND
IGFBP-5	1000	ND
Rat IGF-I	1000	ND
IGF-I/IGFBP-3 complex	1000	ND
IGF-I	1000	ND

Reliable

Reproducibility of the IGF-II assay was determined using two kit controls (n=12) and two samples (n=18) over six assay runs.

Mean Conc.	Wit	hin Run	Betwe	een Run		Total
(ng/mL)	SD	CV	SD	CV	SD	CV
107.08	4.37	4.08	0.50	0.47	4.40	4.11
261.90	4.62	1.76	6.36	2.43	7.86	3.00
323.51	10.71	3.31	14.00	4.33	17.62	5.45
282.05	13.08	4.64	7.77	2.75	15.21	5.39



Insulin-Like Growth Factor II

IGF-II is a useful research tool in Endocrinology studies related to

- Growth Hormone Status
- Growth Hormone Deficiency
- Cancer studies
- Nutrition
- Diabetes

- Hyperinsulinemic Hypoglycemia
- Aging studies
- Fetal growth

	Additionally, we have proteins and
Total ICE II	many monoclonal antibodies to IGF-II
Total IGF-II	and other hormones in the GH-IGF-
Quantitative two step sandwich type immunoassay	IGERD Avis

Call us today or visit

AnshLabs.com to see

what's new in our lab.

Method Quantitative two step sandwich type immunoassay Incubation Time Total 1.5 hour incubation at room temperature Approximate Dynamic Range 6 points, 20 - 1239 ng/mL Limit of Detection 1.33 ng/mL Sample Size / Type 25 μL / Serum, Plasma Shelf-life 24 months

Ordering Information

Total IGF-II	96-Well ELISA	AL-131*

^{*} 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



i

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

A al alitic a allucura la accaración a a a al

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

445 Medical Center Blvd. Webster, TX 77598 • U.S.A. **AnshLabs.com**

Copyright ©2020 Ansh Labs. All rights reserved. POS.131.0320.USINTL

Customer Relations

281.404.0260, Ext. 263 sales@anshlabs.com

Sales

281.404.0260 sales@anshlabs.com

Product Listing*

TGF-Beta Superfamily Activin A Activin B Activin AB

AFP AMH

AMH, Dried Blood Spot picoAMH (MenoCheck)

Estriol Follistatin

Follistatin Like 3

FSH, Dried Blood Spot

GDF-9 hCG, Intact

Inhibin, Total

Inhibin B

Inhibin B, Ultra-Sensitive

LH Dei

LH, Dried Blood Spot PAPP-A

picoPAPP-A PAPP-A2

Glucagon Regulation

C-Peptide of Insulin Glicentin

Glicentii GLP-1

GLP-2 Glucagon

Major Proglucagon Fragment

Oxyntomodulin

Growth Factors

IGF-I, Free IGF-I, Total

IGF-II IGFBP-2

IGFBP-3, Intact

IGFBP-3, Total

IGFBP-4, Intact

IGFBP-5 Stanniocalcin 2

Neuronal Disorders

Specialty Controls
Ansh√Check AMH Tri-Level Controls
Ansh√Check Inhibin B Tri-Level Controls
Ansh√Check Maternal Screening Bi-Level Controls

Species Specific Assays
Activin B - Mouse

AMH - Bovine, Canine, Caprine, Equine, Mouse, Ovine, Porcine, Rat IGF-I, Free - Rat and Mouse

IGF-I, Total - Mouse, Rat Inhibin A - Canine, Equine, Rodent

Inhibin B - Canine, Equine, Rodent Oxyntomodulin - Rat, Mouse PAPP-A - Mouse

* 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