

IGF-II

Enzyme-Linked Immunoassay Kit



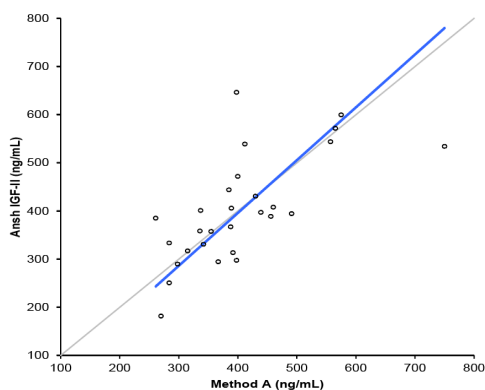
Introduction: Insulin-like growth factor II (IGF-II) is a 7.5 kDa, 67 amino acid peptide, which is thought to mediate some of the actions of growth hormone (GH). IGF-II is synthesized as a prohormone, a polypeptide consisting of A, C, B, D and E domains. After post-translational modification, the mature 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.

IGF-II assays are 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 ADVANTAGES

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.

Simple procedure

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

Direct detection method

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

Analytical measurable range of 20—1239 ng/mL

Wide dynamic range reduces repeat testing of samples.

Calibration

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

Sensitive to 1.33 ng/mL

Sample Name	% Cross-reactivity
IGFBP-2	ND
IGFBP-3	0.04
IGFBP-3/IGF-I Complex	0.42
IGFBP-4	ND
IGFBP-5	ND
Rat IGF-I	3.16
IGF-I	ND

IGF-II

Product Listing

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

- Diabetes
- Growth Hormone Deficiency
- Oncology
- Aging and Longevity Studies
- Fetal Growth
- Hyperinsulinemic Hypoglycemia
- Nutrition Studies
- Growth Hormone Status

ELISA 96 Wells

Method	Quantitative 2-step sandwich type immunoassay
Incubation Time	Total 1.5 hour incubation at room temperature
Approximate Dynamic Range	6 points, 20-1239 ng/mL
Sensitivity	1.33 ng/mL
Sample Size / Type	25 µL / Serum, Plasma
Shelf-life	24 months
Catalog Number	AL-131

Related Assays

Stanniocalcin 2	96-Well ELISA	AL-143
PAPP-A2	96-Well ELISA	AL-109
IGF-I Free	96-Well ELISA	AL-122
IGF-I Total	96-Well ELISA	AL-121 [FDA, CE]
IGFBP-3 Intact	96-Well ELISA	AL-149
IGFBP-3 Total	96-Well ELISA	AL-120
IGFBP-4 Intact	96-Well ELISA	AL-128
IGFBP-4 Total	96-Well ELISA	AL-126
IGFBP-5	96-Well ELISA	AL-127

*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.

POS.131.1222.USINTL

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 (FSTL-3)
 FSH [FDA]
 FSH, Dried Blood Spot
 GDF-9
 GDF-9/BMP-15 Complex
 GDF-15 (Total)
 GDF-15 (H-Specific)
 Inhibin, Total
 Inhibin A [FDA, CE]
 piconinhibin A
 Inhibin A (OMQCheck™)
 Inhibin B [CE]
 Inhibin B, Ultra-Sensitive [CE]
 LH [FDA]
 LH, Dried Blood Spot
 PAPP-A2 [CE]
 picoPAPP-A [CE]
 PLGF [CE]
 Prolactin [FDA, CE]
 Prolactin, Dried Blood Spot [CE]
 Testosterone

Specialty Controls

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

Metabolism

C-Peptide of Insulin
 Glicentin
 GLP-1
 GLP-2
 Glucagon [FDA, CE]
 Major Proglucagon Fragment (MPGF)
 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
 AMH - Bovine, Canine, Equine, Mouse, Ovine, Porcine, Rat
 IGF-I, Free - Mouse, Rat
 IGF-I, Total - Mouse, Rat
 Inhibin A - Canine, Equine, Rodent
 Inhibin B - Canine, Equine, Rodent
 Oxyntomodulin - Mouse, Rat
 PAPP-A - Mouse

Neuronal Disorders

MBP

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

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ISO 13485:2016

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