

Datasheet for KOA0354**Human Growth Hormone ELISA Kit****Overview**

Description:	Human Growth Hormone AccuSignal ELISA Kit - KOA0354
Item No.:	KOA0354
Size:	1 Kit
Applications:	ELISA
Reactivity:	Human
Range:	15.6 pg/ml - 1000 pg/ml

Product Details

Background:	Growth hormone(GH) is synthesized by acidophilic or somatotrophic cells of the anterior pituitary gland. Human growth hormone has a molecular mass of 22,005 and contains 191 amino acid residues with 2 disulfide bridges. The human genes for growth hormone(GH), has been located on chromosome 17 in humans. GH replacement of adults with acquired GH deficiency(GHD) results in body composition changes including increases in lean mass and bone mineral density. However, the effects of long-term GH therapy on cognitive function are largely unknown, and there are conflicting data regarding quality of life. The standard product used in this kit is recombinant human Growth Hormone, consisting of 192 amino acids with the molecular mass of 22KDa.
Synonyms:	gH, GH-N, GH1, GHN, Growth hormone, Growth hormone 1, HGH, Pituitary growth hormone, SOMA_HUMAN, Somatotropin
Detection Kit Type:	ELISA Kit
Detection Range:	15.6 pg/ml - 1000 pg/ml
Sensitivity:	<2 pg/ml

Target Details

Gene Name:	GH1
Reactivity:	Human
Immunogen:	Expression system for standard: E.coli; Immunogen sequence: F27-F217

Purity/Specificity: Natural and recombinant human GH. There is no detectable cross-reactivity with other relevant proteins.

Relevant Links:

- [UniProtKB - B1A4G6](#)
- [NCBI - NP_000506.2](#)
- [GeneID - 2688](#)
- [KOA0354 Protocol](#)

Application Details

Tested Applications: ELISA

Application Note: Useful in Sandwich ELISA for Quantitative Detection of Antigen. Aliquot 0.1ml per well of the 1000pg/ml, 500pg/ml, 250pg/ml, 125pg/ml, 62.5pg/ml, 31.3pg/ml, 15.6pg/ml human GH standard solutions into the precoated 96-well plate. Add 0.1ml of the sample diluent buffer into the control well (Zero well). Add 0.1ml of each properly diluted sample of human cell culture supernates, serum or plasma(heparin, EDTA) to each empty well. We recommend that each human GH standard solution and each sample is measured in duplicate.

Assay Dilutions: All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.

Formulation

Anticoagulant: Heparin Sodium

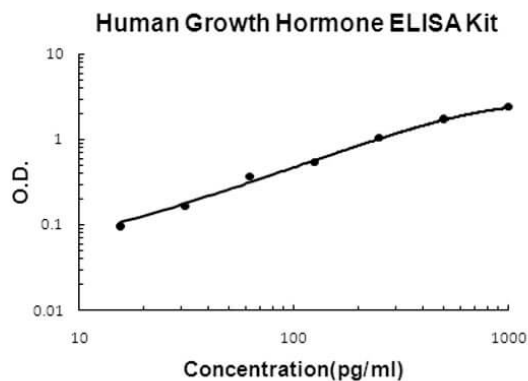
Shipping & Handling

Shipping Condition: Wet Ice

Storage Condition: Store vials at 4°C prior to opening. Centrifuge product if not completely clear after standing at room temperature. This product is stable for 6 months at 4°C as an undiluted liquid. Dilute only prior to immediate use. For extended storage freeze at -20°C or below for 12 months. Avoid cycles of freezing and thawing.

Expiration: See kit insert for complete instructions.

Images

**ELISA**

Human Growth Hormone AccuSignal ELISA Kit standard curve. Assay Range: 15.6pg/ml-1000pg/ml. Sensitivity: <2pg/ml.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.