

Fish Growth hormone ELISA Kit | GH elisa kit

Fish Growth hormone (GH) ELISA Kit

CATALOG #
AAA55532

REACTIVITY
Fish

PRODUCT SYNONYMS

Growth hormone; Fish Growth hormone (GH) ELISA Kit; GH elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Fish
Specificity	This assay has high sensitivity and excellent specificity for detection of Fish GH. No significant cross-reactivity or interference between Fish GH and analogues was observed.
Sequence Length	204
Assay Type	Quantitative Competitive
Samples	Serum, plasma and other biological fluids
Detection Range	312.5 pg/mL - 5000 pg/mL
Sensitivity	156 pg/mL (mean of 6 independent assays)
Intra-assay Precision	Intra-assay Precision (Precision within an assay) Three samples of known concentration were tested twenty times on one plate to assess intra-assay precision. Intra-Assay: CV<8%
Inter-assay Precision	Inter-assay Precision (Precision between assays) Three samples of known concentration were tested in forty separate assays to assess inter-assay precision. CV (%) = SD/meanX100. Inter-Assay: CV<12%
Preparation and Storage	Store at 2-8 degree C.

ADDITIONAL INFORMATION

Related Product Information for GH elisa kit

Background: Growth hormone (GH or HGH), also known as somatotropin or somatropin, is a peptide hormone that stimulates growth, cell reproduction and regeneration in humans and other animals. It is a type of mitogen which is specific only to certain kinds of cells. Growth hormone is a 191-amino acid, single-chain polypeptide that is synthesized, stored, and secreted by somatotrophic cells within the lateral wings of the anterior pituitary gland. GH is a stress hormone that raises the concentration of glucose and free fatty acids. It also stimulates production of IGF-1. GH is used as a prescription drug in medicine to treat children's growth disorders and adult growth hormone deficiency. In the United States, it is only available legally from pharmacies, by prescription from a doctor. In recent years in the United States, some doctors have started to prescribe growth hormone in GH-deficient older patients (but not on healthy people) to increase vitality. While legal, the efficacy and safety of this use for HGH has not been tested in a clinical trial. At this time, HGH is still considered a very complex hormone, and many of its functions are still unknown.

Principle of the Assay: This assay employs the competitive inhibition enzyme immunoassay technique. The microtiter plate provided in this kit has been pre-coated with an antibody specific to GH. Standards or samples are added to the appropriate microtiter plate wells with biotin-conjugated GH. A competitive inhibition reaction is launched between GH (Standards or samples) and biotin-conjugated GH with the pre-coated antibody specific for GH. The more amount of GH in samples, the less antibody bound by biotin-conjugated GH. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Substrate solution is added to the wells and the color develops in opposite to the amount of GH in the sample. The color development is stopped and the intensity of the color is measured.

Intended Uses: For the quantitative detection of Fish Growth hormone (GH) concentration in serum, plasma and other biological fluids.

NCBI AND UNIPROT INFORMATION

NCBI GI #	213890
Molecular Weight	23,110 Da
NCBI Official Full Name	growth hormone
UniProt Protein Name	Somatotropin
UniProt Gene Name	gh
UniProt Entry Name	SOMA_ORENI

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/gh-fish-elisa-kits/growth-hormone/55532>