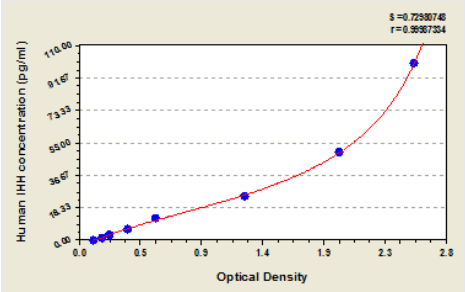
Indian Hedgehog Homolog (Drosophila) (IHH) ELISA Kit for Human

PRODUCT OVERVIEW

Product Name	Indian hedgehog homolog (Drosophila) (IHH), ELISA Kit
Full Product Name	Human Indian hedgehog, IHH ELISA Kit
Product Gene Name	IHH elisa kit
Product Synonym Names	Human Indian hedgehog (IHH) ELISA kit; BDA1; HHG2; Indian hedgehog homolog; Indian hedgehog homolog (Drosophila)
Species Reactivity	Human
Assay Type	Quantitative Sandwich
Samples	Serum, plasma and tissue homogenates
Detection Range	1.56 pg/ml-100 pg/ml
Sensitivity	< 0.39 pg/ml
Specificity	This assay has high sensitivity and excellent specificity for detection of human IHH. No significant cross-reactivity or interference between human IHH and analogues was observed.
Preparation and Storage	Unopened test kits should be stored at 2 to 8 degree C upon receipt. Please refer to pdf manual for further storage instructions.
Inter-assay Precision	Inter-assay Precision (Precision between assays): CV%<10%. Three samples of known concentration were tested in twenty assays to assess.
Intra-assay Precision	Intra-assay Precision (Precision within an assay): CV%<8%. Three samples of known concentration were tested twenty times on one plate to assess.
Molecular Weight	45,251 Da
OMIM	gene 607778
3D Structure	ModBase 3D Structure for Q14623
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for IHH elisa kit	Principle of the Assay: This assay employs the quantitative sandwich enzyme immunoassay technique. Antibody specific for IHH has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any IHH present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for IHH is added to the wells. After washing, avidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of IHH bound in the initial step. The color development is stopped and the intensity of the color is measured.
Other Notes	Small volumes of IHH elisa kit vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for IHH purchase	MBS700039 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Indian hedgehog homolog (Drosophila) (IHH) ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing IHH. The ELISA analytical biochemical technique of the MBS700039 kit is based on IHH antibody-IHH antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect IHH antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, IHH. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%).



Typical Testing Data/Standard Curve (for reference only) of IHH elisa kit

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for IHH. It may not necessarily be applicable to this product.

NCBI GI #	119392086
NCBI GeneID	3549
NCBI Accession #	NP_002172.2
UniProt Primary Accession #	Q14623
UniProt Secondary Accession #	O43322; Q8N4B9; B9EGM5
UniProt Related Accession #	Q14623
GenBank Nucleotide #	NM_002181.3
NCBI Official Full Name	indian hedgehog protein
NCBI Official Synonym Full Names	indian hedgehog
NCBI Official Symbol	IHH
NCBI Official Synonym Symbols	BDA1; HHG2
UniProt Protein Name	Indian hedgehog protein
UniProt Synonym Protein Names	HHG-2Cleaved into the following 2 chains:Indian hedgehog protein N-product; Indian hedgehog protein C-product
Protein Family	Indian hedgehog protein
UniProt Gene Name	IHH
UniProt Synonym Gene Names	IHH
UniProt Entry Name	IHH_HUMAN
NCBI Protein Information	indian hedgehog protein; HHG-2; Indian hedgehog homolog
NCBI Summary for IHH	This gene encodes a member of the hedgehog family of secreted signaling molecules. Hedgehog proteins are essential regulators of a variety of developmental processes including growth, patterning and morphogenesis. The encoded protein specifically plays a role in bone growth an differentiation. Mutations in this gene are the cause of brachydactyly type A1 which is characterized by shortening or malformation of the phalanges. Mutations in this gene are also the cause of acrocapitofemoral dysplasia. [provided by RefSeq, Feb 2010]
UniProt Comments for IHH	**Function:** Intercellular signal essential for a variety of patterning events during development. Binds to the patched (PTC) receptor, which functions in association with smoothened (SMO), to activate the transcription of target genes. Implicated in endochondral ossification: may regulate the balance between growth and ossification of the developing bones. Induces the expression of parathyroid hormone-related protein (PTHRP) 1 PublicationManual assertion based on experiment in:Ref.9
Research Articles on IHH	**1.** Data indicate that overexpression of Indian hedgehog (Ihh) signaling promotes abnormal chondrocyte differentiation in enchondral ossification and enhances bone formation in cervical ossification of the posterior longitudinal ligament (OPLL).

Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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