

Mouse Indian Hedgehog (IHH) ELISA Kit

Catalog No: #EK11241



Package Size: #EK11241-1 48T #EK11241-2 96T

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Description

Product Name	Mouse Indian Hedgehog (IHH) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Mouse (<i>Mus musculus</i>)
Other Names	BDA1; HHG2; Indian hedgehog homolog
Accession No.	P97812
Uniprot	P97812
GeneID	16147;
Storage	<p>The stability of ELISA kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition.</p> <p>The loss rate was determined by accelerated thermal degradation test. Keep the kit at 37C for 4 and 7 days, and compare O.D.values of the kit kept at 37C with that of at recommended temperature. (referring from China Biological Products Standard, which was calculated by the Arrhenius equation. For ELISA kit, 4 days storage at 37C can be considered as 6 months at 2 - 8C, which means 7 days at 37C equaling 12 months at 2 - 8C).</p>

Application Details

Detect Range:0.156-10 ng/mL

Sensitivity:0.059 ng/mL

Sample Type:Serum, Plasma, Other biological fluids

Sample Volume: 1-200 µL

Assay Time:1-4.5h

Detection wavelength:450 nm

Product Description

Detection Method:SandwichTest principle:This assay employs a two-site sandwich ELISA to quantitate IHH in samples. An antibody specific for IHH has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyIHH 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, Streptavidin 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.**Product Overview:**IHH is one of three proteins in the mammalian hedgehog family, the others being desert hedgehog (DHH) and Sonic hedgehog (SHH). It is involved in chondrocyte differentiation, proliferation and maturation especially during endochondral ossification. It regulates its effects by feedback control of parathyroid hormone-related peptide (PTHrP).Gao et al. (2001) decided to focus on IHH as the gene implicated in brachydactyly type A1 because of its position in the implicated interval on chromosome 2q35-q36 flanked by markers D2S2248 and D2S360 and becauseIHH is known to mediate condensation, growth, and differentiation of cartilage. They identified 3 heterozygous missense mutations in the region encoding the amino-terminal signaling domain in all affected members of 3 large, unrelated Chinese families.

Note: This product is for in vitro research use only