

Indian Hedgehog Active Protein | IHH active protein

Recombinant Human Indian Hedgehog

CATALOG #
AAA39005

PRODUCT SYNONYMS

Indian Hedgehog; Recombinant Human Indian Hedgehog; IHH Human; Indian Hedgehog Human Recombinant; Indian hedgehog protein; IHH; HHG-2; BDA1; IHH active protein

PRODUCT SPECIFICATIONS

Purity/Purification	Greater than 95.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.
Form/Format	Lyophilized from a 0.2 um filtered concentrated solution in 1xPBS, pH 7.4. Sterile Filtered White lyophilized (freeze-dried) powder.
Sequence	IIGPGRVVGSRRRPPRKLVP LAYKQFSPNV PEKTLGASGR YEGKIARSSE RFKELTPNYN PDIIKFDEEN TGADRLMTQR CKDRLNSLAI SVMNQWPGVK LRVTEGWDED GHHSEESLHY EGRAVDITTS DRDRNKYGLL ARLAVEAGFD WVYESKAHV HCSVKSEHSA AAKTGG
Sequence Length	411
Source	Escherichia Coli.
Solubility	It is recommended to reconstitute the lyophilized IHH in sterile 18M Omega -cm H2O not less than 100 ug/ml, which can then be further diluted to other aqueous solutions.
Biological Activity	Determined by its ability to induce alkaline phosphatase production by C3H/10T1/2 (CCL-226) cells. The expected ED50 for this effect is 3.0-10.0ug/ml corresponding to a specific activity of 100-334units/mg.
Preparation and Storage	Lyophilized IHH although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution IHH should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

ADDITIONAL INFORMATION

Related Product Information for IHH active protein	Description: IHH Human Recombinant produced in E Coli is a single, non-glycosylated polypeptide chain containing 176 amino acids and having a molecular mass of 19.8kDa. The IHH is purified by proprietary chromatographic techniques. Introduction: IHH belongs to the hedgehog family of secreted signaling molecules. Hedgehog proteins are vital regulators of various developmental processes including growth, patterning and morphogenesis. The vertebrate homologues of Hh comprise several proteins including sonic hedgehog (Shh), Indian hedgehog (Ihh), and Desert hedgehog (Dhh). IHH has a specific role in bone growth and differentiation. In addition, IHH is involved in yolk sac vasculogenesis, having a central role in differentiation of epiblast cells into endothelial and red blood cells. IHH mRNA expression is detected in fetal lung, gut, stomach, liver, kidney, pancreas and strongly in cartilage in growth regions of the developing bone. IHH gene mutations cause the brachydactyly type A1 which is characterized by shortening or malformation of the phalanges and also the acrocapitofemoral dysplasia.
Product Categories/Family for IHH active protein	Cytokines and Growth Factors; Cytokines; Hedgehog Protein

NCBI AND UNIPROT INFORMATION

NCBI GI #	119392086
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NCBI GeneID	3549
NCBI Accession #	NP_002172.2
NCBI GenBank Nucleotide #	NM_002181.3
UniProt Accession #	Q14623; O43322; Q8N4B9; B9EGM5
Molecular Weight	45,251 Da
NCBI Official Full Name	indian hedgehog protein
NCBI Official Synonym Full Names	indian hedgehog
NCBI Official Symbol	IHH
NCBI Official Synonym Symbols	BDA1; HHG2
NCBI Protein Information	indian hedgehog protein; HHG-2; Indian hedgehog homolog
UniProt Protein Name	Indian hedgehog protein
UniProt Gene Name	IHH
UniProt Synonym Gene Names	IHH
UniProt Entry Name	IHH_HUMAN

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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/ihh-active-protein/indian-hedgehog/39005>