# Recombinant Human/Mouse IHH Protein

**Cat. No.** IHH-124H **Lot. No.** (See product label)

## SPECIFICATION

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| **Product Overview** | Recombinant Human/Mouse IHH Protein without tag was expressed in E. coli. |
| **Species** | Human/Mouse |
| **Source** | E.coli |
| **Description** | Indian hedgehog (IHH) is an essential signaling factor that is secreted in the gut, cartilage, and bone during embryonic development. IHH acts through the patched (PTC) receptor to induce transcriptional changes important for bone and cartilage development. IHH also induces the expression of parathyroid hormone-related peptide (PTHrP), which in turn mediates IHH activity during chondrocyte differentiation, forming a negative feedback loop. |
| **Bio-activity** | No biological activity data is available at this time. |
| **Molecular Mass** | Monomer, 19.9 kDa (177 aa) |
| **AA Sequence** | MIIGPGRVVG,SRRRPPRKLV,PLAYKQFSPN,VPEKTLGASG,RYEGKIARSS,ERFKELTPNY,NPDIIFKDEE,NTGADRLMTQRCKDRLNSLA,ISVMNQWPGV,KLRVTEGWDE,DGHHSEESLH,YEGRAVDITT,SDRDRNKYGL,LARLAVEAGF,DWVYYESKAH,VHCSVKSEHSAAAKTGG |
| **Endotoxin** | ≤1 EUs/μg, Kinetic LAL |
| **Purity** | ≥95%, Reducing and Non-Reducing SDS PAGE |

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| **Stability** | 12 months from date of receipt when stored at -20 to -80 centigrade as supplied.<br>1 month when stored at 4 centigrade after reconstituting as directed.<br>3 months when stored at -20 to -80 centigrade after reconstituting as directed. |
| **Storage** | Storage Prior to Reconstitution: -20, centigrade |
| **Storage Buffer** | Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 0.1% Trifluoroacetic Acid (TFA) |
| **Reconstitution** | 10 mM HCl at 0.1 mg/mL |
| **Shipping** | Room temperature |
| **Instructions** | Centrifuge vial before opening. Suspend the product by gently pipetting the above recommended solution down the sides of the vial. DO NOT VORTEX. Allow several minutes for complete reconstitution. For prolonged storage, dilute to working aliquots in a 0.1% BSA solution, store at -80 centigrade and avoid repeat freeze thaws. |

## GENE INFORMATION

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| **Gene Name** | IHH Indian hedgehog [ Homo sapiens (human) ] |
| **Official Symbol** | IHH |
| **Synonyms** | IHH; Indian hedgehog; Indian hedgehog (Drosophila) homolog , Indian hedgehog homolog (Drosophila); indian hedgehog protein; BDA1; HHG2; HHG-2; Indian hedgehog homolog; |
| **Gene ID** | 3549 |
| **mRNA Refseq** | NM_002181 |

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| **Protein Refseq** | NP_002172 |
| **MIM** | 600726 |
| **UniProt ID** | Q14623 |

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