Active Recombinant Mouse Indian Hedgehog

Cat. No. Ihh-1892M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant MouseIhh encoding amino acid residues Cys 28-Gly 202 of Indian Hedgehog (Ihh-N) with Ile-Ile substituted for Cys 28 was expressed in*E. coli.*
Species	Mouse
Source	E.coli
ProteinLength	28-202 a.a.
Description	The Indian Hedgehog (Paraechinus micropus) is a species of hedgehogs native to India and Pakistan. The Indian Hedgehog is known for its masked face, somewhat similar to a raccoon. It tends to live on plains and in bushy mountainous areas near water. The Indian Hedgehog is relatively small (~200-350 grams, ~15 centimetres) and quite fast, although not as fast as the Long-eared Hedgehog. It also has a more diverse diet with additional food source of frogs, toads, snakes and scorpions. Although it is capable of digging dens, it is highly unlikely to do so. Although the Indian Hedgehog doesn't hibernate, it is still capable of slowing down its metabolism when food is scarce.
Purity	> 97%, as determined by SDS-PAGE and visualized by silver stain.
Format	Lyophilized from a 0.2 μm filtered solution in 50 mM NaH2PO4, 150 mM NaCl, 5% trehalose and 0.5 mM DTT, pH 5.5.
Reconstitution	It is recommended that sterile phosphate-buffered saline be added to the vial to

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	prepare a working stock solution of no less than 50 µg/mL. The carrier-free protein should be used immediately upon reconstitution to avoid losses in activity due to non-specific binding to the inside surface of the vial. For long term storage as a dilute solution, a carrier protein (e.g. 0.1% HSA or BSA) should be added to the vial.
Endotoxin Levels	< 1.0 EU per 1 µg of the cytokine as determined by the LAL method.
Molecular Mass	The 177 amino acid residue methionyl form of recombinant mouse Ihh has a predicted molecular mass of approximately 20 kDa.
Activity	Measured by its ability to induce alkaline phosphatase production by C3H10T1/2 fibroblasts.The ED50 for this effect is typically 3-12 µg/mL.
Storage	Lyophilized samples are stable for up to six months at -20° C to -70° C. Upon reconstitution, this cytokine, in the presence of a carrier protein, can be stored under sterile conditions at 2 - 8° C for one month or at -20° C to -70° C in a manual defrost freezer for three months without detectable loss of activity. Avoid repeated freeze-thaw cycles.

GENE INFORMATION

Gene Name	Ihh Indian hedgehog [Mus musculus]
Synonyms	Indian hedgehogl; Ihh; HHG-2; indian hedgehog protein
Gene ID	16147
mRNA Refseq	NM_010544.2
Protein Refseq	NP_034674.1

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UniProt ID	P97812
Chromosome Location	1 C3; 1 40.8 cM
Pathway	Hedgehog signaling pathway
Function	hydrolase activity; peptidase activity; protein binding

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