

## Recombinant Human Indian Hedgehog Cys28Ilelle

### Information

<b>Gene ID</b>	3549
<b>Accession #</b>	Q14623
<b>Alternate Names</b>	HHG-2
<b>Source</b>	Escherichia coli.
<b>M.Wt</b>	Approximately 19.8 kDa, a single non-glycosylated polypeptide chain containing 176 amino acids.
<b>AA Sequence</b>	IIGPGRVVGSRRRPPRKLVP LAYKQFSPNV PEKTLGASGR YEGKIARSSE RFKELTPNYN PDIIFKDEEN TGADRLMTQR CKDRLNSLAI SVMNQWPGVK LRVTEGWDED GHHSEESLHY EGRAVDITTS DRDRNKYGLL ARLAVEAGFD WVYYESKAHV HCSVKSEHSA AAKTGG
<b>Appearance</b>	Sterile Filtered White lyophilized (freeze-dried) powder.
<b>Stability &amp; Storage</b>	Use a manual defrost freezer and avoid repeated freeze-thaw cycles - 12 months from date of receipt, -20 to -70 °C as supplied - 1 month, 2 to 8 °C under sterile conditions after reconstitution
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered concentrated solution in 1 × PBS with 0.02% Tween-20, pH 7.0.
<b>Reconstitution</b>	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at ≤ -20 °C. Further dilutions should be made in appropriate buffered solutions.
<b>Biological Activity</b>	Fully biologically active when compared to standard. The ED as determined by its ability to induce alkaline phosphatase production by C3H10T1/2(CCL-226) cells is 3.0-10 µg/ml.
<b>Shipping Condition</b>	Gel pack.
<b>Handling</b>	Centrifuge the vial prior to opening.
<b>Usage</b>	For Research Use Only! Not to be used in humans.

### Components and Storage

Components	5µg	100µg	500µg
Recombinant Human Indian Hedgehog Cys28Ilelle	5µg	100µg	500µg

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- 12 months from date of receipt, -20 to -70 °C as supplied
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## Quality Control

Purity	> 96 % by SDS-PAGE and HPLC analyses.
Endotoxin	Less than 1 EU/μg of rHuIHH C28II as determined by LAL method.

## Description

IHH, encoded by the IHH gene in humans, belongs to the mammalian hedgehog family. It is expressed in adult kidney and liver. The function of IHH 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). IHH is also involved in yolk sac vasculogenesis, playing an important role in differentiation of epiblast cells into endothelial and red blood cells. Human IHH shares 100 % amino acid sequence identity with murine.

## Reference

1. Kumar S, Balczarek KA, Lai ZC. 1996. Genetics. 142:965-72
2. Marigo V, Roberts DJ, Lee SM, et al. 1995. Genomics. 28:44-51
3. Vortkamp A, Lee K, Lanske B, et al. 1996. Science. 273:613-22.

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