

Recombinant Human Indian Hedgehog Cys28Ilelle

#R00549

Size: 5 µg/100 µg/500 µg

Stability & Storage

- 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.



Warning: This product is intended for scientific research only. It is not to be used for medical or diagnostic procedures in humans or animals, nor as a food, cosmetic, or household product.

Background

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.

AA Sequence

IIGPGRVVGSRRRPPRKLVPLAYKQFSPNVPEKTLGA
SGRYEGKIARSSERFKELTPNYPDIIFKDEENTGAD
RLMTQRCKDRLNSLAISVMNQWPGVKLRVTEGWDE
DGHHSEESLHYEGRAVDITTSDDRDRNKYGLLARLAVE
AGFDWVYYESKAHVHCSVKSEHSAAAKTGG

Reconstitution

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.

Product Specification

Synonyms	HHG-2
Accession	Q14623
GeneID	3549
Species	Human
Source	Escherichia coli.
Molecular Weight	Approximately 19.8 kDa, a single non-glycosylated polypeptide chain containing 176 amino acids.
Purity	> 96 % by SDS-PAGE and HPLC analyses.
Biological Activity	Fully biologically active when compared to standard. The ED ₅₀ as determined by its ability to induce alkaline phosphatase production by C3H10T1/2(CCL-226) cells is 3.0-10 µg/ml.

Physical	Sterile Filtered White lyophilized
Appearance	(freeze-dried) powder.
Formulation	Lyophilized from a 0.2 μm filtered concentrated solution in 1 × PBS with 0.02% Tween-20, pH 7.0.
Endotoxin	Less than 1 EU/μg of rHuIHH C28II as determined by LAL method.