

GFH182AF Recombinant Human IHH (Animal-Free)

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.

This product is produced with no animal derived raw products. All processing and handling employs animal free equipment and animal free protocols.

Length	177 aa
Molecular Weight	19.9 kDa
Source	E. coli
Accession Number	Q14623
Purity	≥95% determined by reducing and non-reducing SDS-PAGE

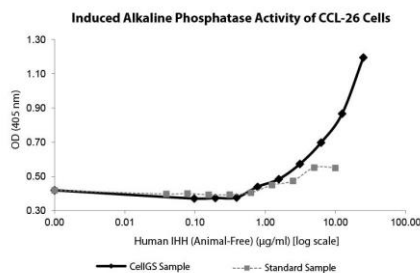
Specifications

Alternative Names	Indian Hedgehog, HHG-2
Biological Activity	Human IHH (Animal-Free) is fully biologically active when compared to standard. The activity is determined by the induced alkaline phosphatase activity of CCL-26 cells.
Endotoxin Level	≤1.00 EU/μg as measured by kinetic LAL
Formulation	Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 0.1% Trifluoroacetic Acid (TFA)
AA Sequence	MIIGPGRVVG SRRRPPRKLV PLAYKQFSPN VPEKTLGASG RYEGKIARSS ERFKELTPNY NPDIIIFKDEE NTGADRLMTQ RCKDRLNSLA ISVMNQWPGV KLRVTEGWDE DGHHSSESLH YEGRAVDITT SDRDRNKYGL LARLAVEAGF DWVYYESKAH VHCSVKSEHS AAAKTGG

Preparation and Storage

Reconstitution	Centrifuge vial before opening. When reconstituting the product, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution. It is recommended to reconstitute the lyophilized product with sterile 10 mM HCl at 0.1 mg/ml, which can be further diluted into other aqueous solutions.
Stability and Storage	12 months from date of receipt when stored at -20°C to -80°C as supplied. 1 month when stored at 4°C after reconstituting as directed. 3 months when stored at -20°C to -80°C after reconstituting as directed.

Data



Induced alkaline phosphatase activity of CCL-26 cells assay for Human IHH. Cell proliferation was measured to calculate the ED50, which is in the range of μg/ml.