## **Certificate of Analysis**



Recombinant Animal-Free Human / Mouse IHH

Catalog Number: 800-05AF Lot Number: 0914-800-05AF

## **Product Description**

**Alternate Names: HHG-2** Accession/Uniprot Number: Q14623 / P97812

**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.

Source: Genetically modified E.coli. This product is produced with no animal or human origin raw products. All processing and handling employs animal free equipment and animal free protocols.

Predicted MW: Monomer, 19.9 kDa (177 amino acids)

AA Sequence: MIIGPGRVVG SRRRPPRKLV PLAYKQFSPN VPEKTLGASG RYEGKIARSS ERFKELTPNY NPDIIFKDEE

NTGADRLMTQRCKDRLNSLA ISVMNQWPGV KLRVTEGWDE DGHHSEESLH YEGRAVDITT SDRDRNKYGL

LARLAVEAGF DWVYYESKAH VHCSVKSEHSAAAKTGG

Formulation: Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 0.1% Trifluoroacetic Acid (TFA)

**Product Specifications** 

Specification	<b>Method of Determination</b>	Acceptance Criteria	Result
Purity	Reducing and Non-reducing SDS-PAGE	≥95%	>95%
Endotoxin	Kinetic LAL (50% confidence)	≤ 1 EUs/ug	0.10 EUs/ug

Product Preparation and Storage

**Country of Origin: USA Shipping:** Room temperature **Storage Prior to Reconstitution:** -20°C

**Reconstitution:** 10 mM HCl at 0.1 mg/mL Date of Recon.: Initials:

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°C and avoid repeat freeze thaws.

**Expiration Date:** Date Received:

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.

THIS PRODUCT IS FOR RESEARCH USE ONLY AND IS NOT FOR USE IN HUMANS!

Olivia Schneider PhD, 1-4-2018

Quality Control

Certified Women's Business Enterprise

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