



Product Data Sheet

Recombinant Animal-Free Human / Mouse IHH

Catalog Number: 800-05AF

Product Description

Alternate Names: HHG-2

Accession 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 (with 177 amino acids)

AA Sequence: MIIGPGRVVG SRRRPPRKLK PLAYKQFSPN VPEKTLGASG RYEGKIARSS ERFKELTPNY NPDIIFKDEE NTGADRLMTQRCKDRLNSLA ISVMNQWPGV KLRVTEGWDE DGGHSEESLH YEGRAVDITT SDRDRNKYGL LARLAVEAGF DWVYYESKAH VHCSVKSEHSAAKTGG

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

Product Specifications*

*Lot-specific values for the following specifications are supplied with each production lot on its corresponding COA.

| Specification | Method of Determination | Acceptance Criteria |
|---------------|------------------------------------|---------------------|
| Purity | Reducing and Non-Reducing SDS-PAGE | ≥95% |
| Endotoxin | Kinetic LAL (50% confidence) | ≤ 1 EUs/μg |

In addition to the acceptance criteria, this product has been tested with the following assay:

(1) Induced alkaline phosphatase activity in CCL-226 cells (typical ED50 is < 10 ug/mL)

Product Preparation and Storage

Country of Origin: USA

Shipping: Room temperature

Storage Prior to Reconstitution: -20°C

Product Reconstitution: 10 mM HCl at 0.1 mg/mL

Instructions: 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:

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!