

## GFM73 Recombinant Mouse IHH

### 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.

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

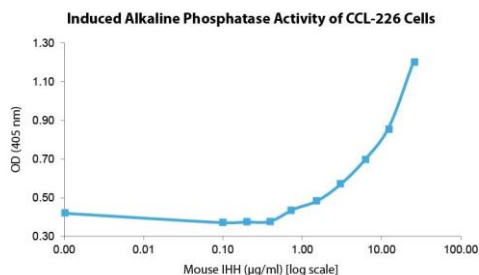
### Specifications

<b>Alternative Names</b>	Indian Hedgehog, HHG-2
<b>Biological Activity</b>	Mouse IHH is fully biologically active when compared to standard. The activity is determined by the induced alkaline phosphatase activity of CCL-226 cells.
<b>Endotoxin Level</b>	≤1.00 EU/μg as measured by kinetic LAL
<b>Formulation</b>	Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 0.1% Trifluoroacetic Acid (TFA)
<b>AA Sequence</b>	MIIGPGRVVG SRRRPPRKLV PLAYKQFSPN VPEKTLGASG RYEGKIARSS ERFKELTPNY NPDIIFKDEE NTGADRLMTQ RCKDRLNSLA ISVMNQWPGV KLRVTEGWDE DGHHSSESLH YEGRAVDITT SDRDRNKYGL LARLAVEAGF DWVYYESKAH VHCSVKSEHS AAAKTGG

### Preparation and Storage

<b>Reconstitution</b>	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.
<b>Stability and Storage</b>	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-226 cells assay for Mouse IHH.  
Cell proliferation was measured to calculate the ED50.