

Product: **Animal Free Recombinant Human IHH**
Cat #: 300-854P
Powder

Description	Indian Hedgehog (IHH) is a developmental factor found in the gut, cartilage and bones of an embryo. IHH acts through the patched (PTC) receptor and induces transcriptional changes important for bone development and include the up regulation of parathyroid hormone-related protein (PTHrP). Alternate names: HHG-2 This product is produced with no animal-derived raw products, animal free equipment and animal free protocols.
MW	Non-glycosylated protein, containing 177 amino acids, with a molecular weight of 20 kDa.
Physical Appearance	Sterile filtered white lyophilized (freeze-dried) powder.
Source	<i>E. coli</i>
Formulation	Lyophilized from a sterile filtered aqueous solution containing 0.1% Trifluoroacetic Acid (TFA)
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 water at a concentration of 0.1 mg/mL, which can be further diluted into other aqueous solutions.
Stability	Lyophilized product is very stable at -20°C. Reconstituted material should be aliquoted and frozen at -20°C. It is recommended that a carrier protein (0.1% HSA or BSA) is added for long term storage.
Biological Activity	The activity is determined by the dose-dependent induction of alkaline phosphatase activity of CCL-226 cells and is typically less than 10 µg/mL. This corresponds to an expected specific activity of 1 x 10 ² units/mg.
Endotoxin Level	Measured by kinetic LAL analysis and is typically < 0.05 EU/µg protein.
AA Sequence	MIIGPGRVVG SRRRPPRKLV PLAYKQFSPN VPEKTLGASG RYEGKIARSS ERFKELTPNY NPDIIFKDEE NTGADRLMTQ RCKDRLNSLA ISVMNQWPGV KLRVTEGWDE DGHHSSESLH YEGRAVDITT SDRDRNKYGL LARLAVEAGF DWVYYESKAH VHCSVKSEHS AAAKTGG

Purity greater than 97% determined by Reducing and Non-reducing SDS-PAGE.

Protein content determined by Reducing and Non-reducing SDS-PAGE.

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