

IHH

Catalog # PVGS1454

Product Information

Primary Accession Species	Q14623 Human
Sequence	Cys28-Gly202 (Cys28IleIle)
Purity	> 95% as analyzed by SDS-PAGE
Endotoxin Level	
Biological Activity	ED ₅₀
Expression System	E. coli
Formulation	Lyophilized after extensive dialysis against PBS.
Reconstitution	It is recommended that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute the lyophilized powder in ddH ₂ O or PBS up to 100 µg/ml.
Storage & Stability	Upon receiving, this product remains stable for up to 6 months at lower than -70°C. Upon reconstitution, the product should be stable for up to 1 week at 4°C or up to 3 months at -20°C. For long term storage it is recommended that a carrier protein (example 0.1% BSA) be added. Avoid repeated freeze-thaw cycles.

Additional Information

Gene ID	3549
Other Names	Indian hedgehog protein, IHH, 3.1.-., HHG-2, Indian hedgehog protein N-product, IHH (HGNC:5956)
Target Background	The Indian Hedgehog protein (IHH) is one of three proteins in the mammalian hedgehog family, the others being desert hedgehog (DHH) and Sonic hedgehog (SHH). Hedgehog proteins are important signaling molecules during embryonic development and are highly conserved across species. Mouse and human IHH share 100% amino acid identity in the signaling domain, while mouse IHH and SHH share 90% amino acid identity in the N-terminal signaling domain. IHH mRNA expression is detected in fetal lung, gut, stomach, liver, kidney, pancreas and strongly in cartilage in growth regions of the developing bone. IHH has a specific role in bone growth and differentiation. In addition, IHH is involved in yolk sac vasculogenesis, having a central role in differentiation of epiblast cells into endothelial and red blood cells. IHH gene mutations cause the brachydactyly type A1 which is characterized by shortening or malformation of the phalanges and also the acrocapitofemoral dysplasia.

Protein Information

Name	IHH (HGNC:5956)
Function	Plays a role in embryonic morphogenesis; it is involved in the regulation of endochondral skeleton formation, and the development of retinal pigment epithelium (RPE), photoreceptors and periocular tissues (By similarity).
Cellular Location	[Indian hedgehog protein N-product]: Cell membrane; Lipid-anchor {ECO:0000250 UniProtKB:Q62226}. Note=The N-product remains associated with the cell surface. {ECO:0000250 UniProtKB:Q15465}
Tissue Location	Expressed in embryonic lung, and in adult kidney and liver

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.