9051 Mira Mesa Blvd, #910094
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SHH (C24II) Human

Sonic HedgeHog (C24II) Human Recombinant
CYK0528

Product Overview

Name	SHH (C24II) Human
Description	
Sonic HedgeHog (C24II) Human Recombinant	
Accession (Primary)	Q15465
Synonyms	
Sonic Hedgehog, MCOPCB5, SMMCI, HLP3, HPE3, Sonic Hedgehog (Drosophila) Homolog, Sonic Hedgehog Homolog (Drosophila), Sonic Hedgehog Homolog, Sonic Hedgehog Protein, TPTPS, HHG-1, HHG1, TPT, SHH (C24II).	
Introduction	
Sonic Hedgehog is part of a small group of secreted proteins which are vital for development in both vertebrates and invertebrates. 3 mammalian hedgehog genes (sonic, desert, Indian) share about 60% homology. The Human Sonic Hedgehog is 99% homologous to the mouse gene. Sonic HedgeHog is a protein that is vital in guding the early embryo. It has been associated as the major inductive signal in patterning of the ventral neural tube, the anterior-posterior limb axis, and the ventral somites. Sonic HedgeHog binds to the patched receptor, which functions in association with smoothened, to activate the transcription of target genes. In the absence of sonic HedgeHog, patched receptor represses the constitutive signaling activity of smoothened. Sonic HedgeHog also regulates another factor, the gli oncogene. Sonic HedgeHog intercellular signal is essential for a various patterning events during development: signal produced by the notochord that induces ventral cell fate in the neural tube and somites, and the polarizing signal for patterning of the anterior-posterior axis of the developing limb bud. Sonic HedgeHog exhibits both floor plate- and motor neuron-inducing activity. Mutations in a long-range Sonic HedgeHog enhancer located in an intron of the limb region 1 gene result in preaxial polydactyly.	
Source	
Escherichia Coli.	
Physical Appearance	
Sterile filtered colorless solution.	
Formulation	
The SHH protein solution (1mg/ml) containing Phosphate buffered saline (pH7.4).	
Stability	

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Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Purity

Greater than 95% as determined by SDS-PAGE.

Amino acid sequence

MIIGPGRGFG KRRHPKKLTP LAYKQFIPNV AEKTLGASGR YEGKISRNSE RFKELTPNYN PDIIFKDEEN TGADRLMTQR CKDKLNALAI SVMNQWPGVK LRVTEGWDED GHHSEESLHY EGRAVDITTS DRDRSKYGML ARLAVEAGFD WVYYESKAHI HCSVKAENSV AAKSGG

Precautions

SHH (C24II) Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (Q15465)