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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Datasheet

SHH (Human) Recombinant Protein

Catalog Number: P9080

Regulation Status: For research use only (RUO)

Product Description: Human SHH (Q15465) recombinant protein expressed in *Escherichia coli*.

Sequence:
MIIGPGRGFGKRRHPKKLTPLAYKQFIPNVAEKTLGAS
GRYEGKISRNSERFKELTPNYNPDIIFKDEENTGADRL
MTQRCKDKLNALAISVMNQWPGVKLRVTEGWDEDGH
HSEESLHYEGRALDITTSDRDRSKYGMLARLAVEAGF
DWVYYESKAHIHCSVKAENSVAAKSGGCFP

Host: Escherichia coli

Theoretical MW (kDa): 20.2

Protocols: See our web site at http://www.abnova.com/support/protocols.asp or product page for detailed protocols

Form: Lyophilized

Preparation Method: *Escherichia coli* expression system

Purity: > 95% by SDS-PAGE.

Activity: The ED_{50} is measured by the dose-dependent induction of alkaline phosphatase production by CCL-226 fibroblasts and is 1.47 ug/mL corresponding to a specific activity of 680 U/mg.

Storage Buffer: Lyophilized from 10mM Na3PO4, pH 7.5.

Storage Instruction: Store at -20°C. Aliquot the product after reconstitution to avoid repeated freezing/thawing cycles.

Entrez GeneID: 6469

Gene Symbol: SHH

Gene Alias: HHG1, HLP3, HPE3, MCOPCB5, SMMCI, TPT, TPTPS

Gene Summary: This gene encodes a protein that is instrumental in patterning the early embryo. It has been implicated as the key inductive signal in patterning of the ventral neural tube, the anterior-posterior limb axis, and the ventral somites. Of three human proteins showing sequence and functional similarity to the sonic hedgehog protein of Drosophila, this protein is the most similar. The protein is made as a precursor that is autocatalytically cleaved; the N-terminal portion is soluble and contains the signalling activity while the C-terminal portion is involved in precursor processing. More importantly, the C-terminal product covalently attaches a cholesterol moiety to the N-terminal product, restricting the N-terminal product to the cell surface and preventing it from freely diffusing throughout the developing embryo. Defects in this protein or in its signalling pathway are a cause of holoprosencephaly (HPE), a disorder in which the developing forebrain fails to correctly separate into right and left hemispheres. HPE is manifested by facial deformities. It is also thought that mutations in this gene or in its signalling pathway may be responsible for VACTERL syndrome, which is characterized by vertebral defects, anal atresia, tracheoesophageal fistula with esophageal atresia, radial and renal dysplasia, cardiac anomalies, and limb abnormalities. Additionally, mutations in a long range enhancer located approximately 1 megabase upstream of this gene disrupt limb patterning and can result in preaxial polydactyly. [provided by RefSeq]