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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Datasheet

SHH (Human) Recombinant Protein

Catalog Number: P9132

Regulation Status: For research use only (RUO)

Product Description: Human SHH partial recombinant protein expressed in *Escherichia coli*.

Sequence:

MIIGPGRGFGKRRHPKKLTPLAYKQFIPNVAEKTGAS
GRYEGKISRNSERFKELTPNYPDIIFKDEENTGADRL
MTQRCKDKLNALAI SVMNQWPGVKLRVTEGWDEDGH
HSEESLHYEGRAVDITTSRDRSKYGMRLARLAVEAGF
DWVYYESKAHIHCSVKAENSVAAKSGG

Host: *Escherichia coli*

Theoretical MW (kDa): 19.8

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

Form: Liquid

Preparation Method: *Escherichia coli* expression
system

Purification: chromatographic

Purity: > 95% as determined by SDS-PAGE.

Isotype: *Escherichia Coli*.

Storage Buffer: Solution (1 mg/mL) containing 1X PBS,
pH 7.4.

Storage Instruction: Store at 4°C for 2-4 weeks and
should be stored at -20°C to -80°C. For long term
storage it is recommended to add a carrier protein (0.1%
HSA or BSA).
Avoid repeated freeze/thaw 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]