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## Produktinformation



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### Lieferung & Zahlungsart

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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## Sonic HedgeHog, His Tag, human recombinant (rHuSHH-His)

**Catalog No:** 97362  
**Lot No:** XXXXX  
**Source:** *E. coli*  
**Synonyms:** SHH, HHG-1, HHG1, Sonic hedgehog protein, TPT, HLP3, HPE3, SMMCI, TPTPS, MCOPCB5

### Background

Recombinant Human Sonic Hedgehog is part of a small group of secreted proteins that 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 guiding 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.

### Description

Sonic HedgeHog Recombinant Human produced in *E. coli* is a single, non-glycosylated polypeptide chain containing 183 amino acids and having a molecular mass of 20.7 kDa. Sonic HedgeHog is fused to 8 amino acid His-Tag at C-terminus and purified by proprietary chromatographic techniques.

### Physical Appearance

Sterile filtered colorless solution.

### Formulation

SHH Human solution contains 20 mM Tris-HCl pH 8, 0.1 M NaCl and 10% glycerol.

### Stability

SHH Human although stable at 4°C for 1 week, should be stored desiccated below -18°C. Please prevent freeze thaw cycles.

### Purity

Greater than 95.0% as determined by SDS-PAGE.

### Amino Acid Sequence

MCGPGRGFGK RRHPKCLTPL AYKQFIPNVA EKT LGASGRY EGKISRNSER FKELTPNYNP DIIFKDEENT GADRLMTQRC  
KDCLNALAIS VMNQWPGVKL RVTEGWDEDG HHSEESLHYE GRAVDITTS D RDRSKYGMLA RLAVEAGFDW VYYESKAHIH  
CSVKAENSV A AKSGGLEHHH HHH

### Usage

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