## PRODUCT INFORMATION

## Expression system

E.coli

## Domain

24-197aa

## UniProt No.

Q15465

## NCBI Accession No.

NP_000184

## Alternative Names

Sonic hedgehog protein, HHG1, HLP3, HPE3, SMMCI, TPT, TPTPS, Sonic hedgehog protein HHG 1, HLP 3, Holoprosencephaly 3, HPE 3, MCOPCB5, SHH, SMMC I, SMMCI, Sonic Hedgehog (Drosophila) homolog, sonic hedgehog homolog (Drosophila), Sonic hedgehog homolog,

## PRODUCT SPECIFICATION

## Molecular Weight

20.7 kDa (183aa) confirmed by MALDI-TOF

## Concentration

$1 \mathrm{mg} / \mathrm{ml}$ (determined by Bradford assay)

## Formulation

Liquid in. 20 mM Tris- HCl buffer (pH 8.0) containing $10 \%$ glycerol 0.1 M NaCl

## Purity

> 95\% by SDS-PAGE

## Endotoxin level

$<1$ EU per lug of protein (determined by LAL method)

## Tag

His-Tag

## Application

SDS-PAGE

## Storage Condition

Can be stored at +2 C to +8 C for 1 week. For long term storage, aliquot and store at -20 C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

## Description

SHH, also known as Sonic hedgehog protein, is one of three proteins in the mammalian signaling pathway family called hedgehog. It plays a key role in regulating vertebrate organogenesis, such as in the growth of digits on

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## Recombinant human Sonic Hedgehog/Shh protein

## Catalog Number: ATGP0575

limbs and organization of the brain. It controls cell division of adult stem cells and has been implicated in development of some cancers. Recombinant human SHH protein, fused to His-tag at C-terminus was expressed in E. coli and purified by using conventional chromatography techniques.

## Amino acid Sequence

MCGPGRGFGK RRHPKKLTPL AYKQFIPNVA EKTLGASGRY EGKISRNSER FKELTPNYNP DIIFKDEENT GADRLMTQRC KDKLNALAIS VMNQWPGVKL RVTEGWDEDG HHSEESLHYE GRAVDITTSD RDRSKYGMLA RLAVEAGFDW VYYESKAHIH CSVKAENSVA AKSGG<LEHHH HHH>

## General References

Marigo V, et al. (1996) Proc Natl Acad Sci u S A. 93(18):9346-51
Kolpak A, et al. (2005) J Neurosci. 25(13):3432-41

## DATA

## SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

