

Recombinant human Sonic Hedgehog/Shh protein

Catalog Number: ATGP0575

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

1mg/ml (determined by Bradford assay)

Formulation

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

Purity

> 95% by SDS-PAGE

Endotoxin level

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

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C 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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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 RRHPKLLTPL AYKQFIPNVA EKTLGASGRY EGKISRNSER FKELTPNYNP DIIFKDEENT GADRLMTQRC
KDKLNALAI SVMNQWPGVKL RVTEGWDEDG HHSEESLHYE GRAVDITSD RDRSKYGMLA RLAVEAGFDW VYYESKAHIH
CSVKAENSVA AKSGG<LEHHH HHH>

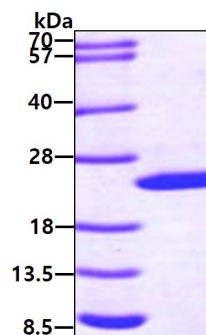
General References

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



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