

Recombinant human Sonic Hedgehog/Shh (C24II) protein

Catalog Number: ATGP3037

PRODUCT INFORMATION

Expression system

E.coli

Domain

24-197aa

UniProt No.

Q15465

NCBI Accession No.

NP_000184

Alternative Names

Sonic hedgehog protein, Sonic hedgehog protein, HHG1, HLP3, HPE3, MCOPCB5, SMMCI, TPT, TPTPS

PRODUCT SPECIFICATION

Molecular Weight

19.8 kDa (176aa) confirmed by MALDI-TOF

Concentration

1mg/ml (determined by Bradford assay)

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4)

Purity

> 95% by SDS-PAGE

Endotoxin level

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

Tag

Non-Tagged

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 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 was expressed in E. coli and purified by using

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conventional chromatography techniques.

Amino acid Sequence

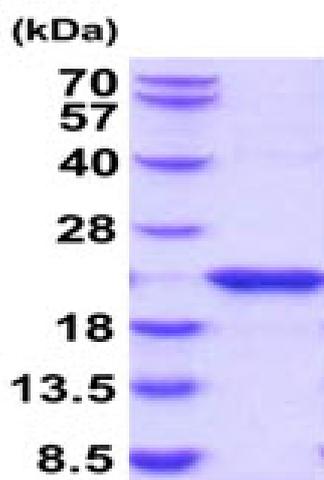
MIIGPGRGFG KRRHPKLTLP LAYKQFIPNV AEKTLGASGR YEGKISRNSR RFKELTPNYN PDIIFKDEEN TGADRLMTQR
CKDKLNALAI SVMNQWPGVK LRVTEGWDED GHHSEESLHY EGRAVDITTS DRDRSKYGML ARLAVEAGFD WVYYESKAHI
HCSVKAENSV AAKSGG

General References

Richieri-Costa A., et al. (2006) Am. J. Med. Genet. A 140:2587-2593.
El-Jaick K.B., et al (2005) Am. J. Med. Genet. A 136:345-345.

DATA

SDS-PAGE



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

15% SDS-PAGE (3ug)