

Recombinant mouse Sonic Hedgehog/Shh protein

Catalog Number: ATGP0537

PRODUCT INFORMATION

Expression system

E.coli

Domain

25-198aa

UniProt No.

Q62226

NCBI Accession No.

NP_033196

Alternative Names

Sonic hedgehog protein, Dsh, Hhgl, Hx, Hx13, Sonic hedgehog protein HHG 1, HHG1, HLP 3, HLP3, Holoprosencephaly 3, HPE 3, HPE3, MCOPCB5, SHH, SMMC I, SMMCI, Sonic Hedgehog (Drosophila) homolog, sonic hedgehog homolog (Drosophila), Sonic hedgehog homolog, TPT, TPTPS.

PRODUCT SPECIFICATION

Molecular Weight

20.8 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, 1mM DTT

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 is one of three proteins in the mammalian signaling pathway family called hedgehog, the others being desert hedgehog (DHH) and Indian hedgehog (IHH). This protein is the best studied ligand of the hedgehog

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signaling pathway. It plays a key role in regulating vertebrate organogenesis. SHH contain amino-terminal signal peptides and apparently function as secreted proteins involved in the mediation of various cell-cell interactions. Recombinant mouse 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 EGKITRNSER FKELTPNYPN DIIFKDEENT GADRLMTQRC
KDKLNALAI VMNQWPGVKL RVTEGWDEDG HHSEESLHYE GRAVDITTSD RDRSKYGMLA RLAVEAGFDW VYYESKAHIH
CSVKAENSVA AKSGGLEHHH HHH

General References

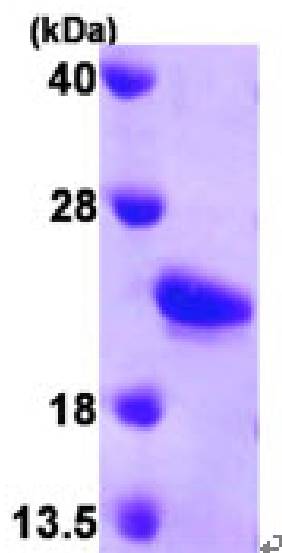
Bak M., et al. (2004) Brain Res Mol Brain Res. 126(2):207-11.

Dassule HR., et al. (2000) Development. 127(22):4775-85.

DATA

SDS-PAGE

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



15% SDS-PAGE (3ug)+