

Recombinant Mouse Sonic Hedgehog, His-tagged

Cat. No. Shh-2363M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant mouse SHH protein, fused to His-tag at C-terminus, was expressed in <i>E.coli</i> and purified by using conventional chromatography techniques. 20.8 kDa (183aa).
Species	Mouse
Source	E.coli
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 signaling pathway. It plays a key role in regulating vertebrate organogenesis. SHH contains amino-terminal signal peptides and apparently function as secreted proteins involved in the mediation of various cell-cell interactions.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol 1mM DTT.
Purity	> 95% by SDS – PAGE.
Concentration	1 mg/ml (determined by Bradford assay).
Sequences Of Amino Acids	MCGPGRGFGK RRHPKKLTPL AYKQFIPNVA EKT LGASGRY EGKITRNSER FKELTPNYPN DIIFKDEENT GADRLMTQRC KDKLNALAI VMNQWPGVKL RVTEGWDEDG HHSEESLHYE GRAVDITTSD RDRSKYGMLA RLAVEAGFDW VYYESKAHIH CSVKAENSA AKSGGLEHHH HHH.

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Storage

Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

GENE INFORMATION
Gene Name

Shh sonic hedgehog [*Mus musculus*]

Synonyms

Shh; sonic hedgehog; Hx; Dsh; Hhg1; Hxl3; M100081; 9530036O11Rik; HHG-1; HHG1; HLP3; HPE3; MCOPCB5; SMMCI; TPT; TPTPS; sonic hedgehog (*Drosophila*) homolog; sonic hedgehog homolog (*Drosophila*)

Gene ID

20423

mRNA Refseq

NM_009170

Protein Refseq

NP_033196

UniProt ID

Q62226

**Chromosome
Location**

5 16.0cM

Pathway

Basal cell carcinoma; Hedgehog signaling pathway; Pathways in cancer

Function

hydrolase activity; laminin-1 binding; patched binding; peptidase activity; protein binding

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3D structure of the
signaling domain of
the murine Sonic
hedgehog from PDB
1vhh



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