

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 RRHPKLTPL AYKQFIPNVA EKT LGASGRY EGKITRNSER FKELTPNYNP DIIFKDEENT GADRLMTQRC KDKLNALAI VMNQWPGVKL RVTEGWDEEDG HHSEESLHYE GRAVDITTSD RDRSKYGMLA RLAVEAGFDW VYYESKAHIH CSVKAENSV 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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