

## Recombinant Mouse Shh Protein, Myc/DDK-tagged

Cat. No. Shh-5863M Lot. No. (See product label)

### SPECIFICATION

|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Overview | Purified recombinant protein of mouse full-length sonic hedgehog (Shh), with C-terminal MYC/DDK tag, expressed in HEK293T cells.                                                                                                                                                                                                                                                                                                                             |
| Species          | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Source           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Description      | The C-terminal part of the sonic hedgehog protein precursor displays an autoproteolysis and a cholesterol transferase activity. Both activities result in the cleavage of the full-length protein into two parts (ShhN and ShhC) followed by the covalent attachment of a cholesterol moiety to the C-terminal of the newly generated ShhN. Both activities occur in the reticulum endoplasmic. Once cleaved, ShhC is degraded in the endoplasmic reticulum. |
| Molecular Mass   | 48.2 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Purity           | > 80% as determined by SDS-PAGE and Coomassie blue staining                                                                                                                                                                                                                                                                                                                                                                                                  |
| Stability        | Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.                                                                                                                                                                                                                                                                                                                |
| Storage          | Store at -80 centigrade after receiving vials.                                                                                                                                                                                                                                                                                                                                                                                                               |
| Concentration    | >50 µg/mL as determined by microplate BCA method                                                                                                                                                                                                                                                                                                                                                                                                             |

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**Storage Buffer** 25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

## GENE INFORMATION

**Gene Name** Shh sonic hedgehog [ *Mus musculus* (house mouse) ]

**Official Symbol** Shh

**Synonyms** SHH; sonic hedgehog; sonic hedgehog protein; HHG-1; short digits; hemimelic extra toes; Hx; Dsh; Hhg1; Hxl3; M100081; 9530036O11Rik

**Gene ID** 20423

**mRNA Refseq** NM\_009170

**Protein Refseq** NP\_033196

**UniProt ID** Q62226

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