

Active Recombinant Mouse Shh Protein

Cat. No. Shh-5862M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of Mouse sonic hedgehog (Shh) without tag was expressed in E. coli.
Species	Mouse
Source	E.coli
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.
Bio-activity	Determined by its ability to induce alkaline phosphatase production by C3H/10T1/2 (CCL-226) cells. The expected ED50 for this effect is 0.5-1.0µg/mL.
Molecular Mass	20 kDa
AA Sequence	IVIGPGRGFGKRRHPKKLTPLAYKQFIPNVAEKTLGASGRYEGKITRNSERFKELTPN YNPDIIIFKDEENTGADRLMTQRCKDKLNALISVMNQWPGVKLRVTEGWDEDDGHHS EESLHYEGRAVDITTSRDRSKYGMLARLAVEAGFDWVYYESKAHIHCSVKAENSV AAKSGG
Endotoxin	< 0.1 ng/µg of protein (< 1 EU/µg)

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Purity	> 90% as determined by SDS-PAGE and Coomassie blue staining
Stability	Unopened vial can be stored between 2 and 8 centigrade for up to 2 weeks, at -20 centigrade for up to 6 months, or at -70 centigrade or below until the expiration date. Aliquots can be stored between 2 and 8 centigrade for up to one week and stored at -20 centigrade or colder for up to 3 months. Avoid repeated freeze/thaw cycles.
Storage	Store at -80 centigrade.
Storage Buffer	Lyophilized from a 0.2 µM filtered solution of 20 mM pH 7.2 phosphate buffer, 100 mM NaCl, pH 7.2

GENE INFORMATION

Gene Name	Shh sonic hedgehog [<i>Mus musculus</i> (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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