

Active Recombinant Mouse SHH protein(Met1-Gly198), His-tagged

Cat. No. SHH-1250M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse SHH (Q62226) (Met1-Gly198) was expressed in HEK293 with a C-terminal polyhistidine tag.
Species	Mouse
Source	HEK293
ProteinLength	Met1-Gly198
Form	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.
Bio-activity	Measured by its ability to induce alkaline phosphatase production by C3H10T1/2 Mouse embryonic fibroblast cells. Nakamura, T. et al. (1997) Biochem. Biophys. Res. Commun.237:465. The ED50 for this effect is typically 5-40 µg/mL.
Molecular Mass	The recombinant Mouse SHH comprises 185 amino acids and has a predicted molecular mass of 21 kDa. The apparent molecular mass of the protein is approximately 23 kDa in SDS-PAGE under reducing conditions due to glycosylation.
Endotoxin	< 1.0 EU per µg of the protein as determined by the LAL method
Purity	> 90 % as determined by SDS-PAGE

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Storage Samples are stable for up to twelve months from date of receipt at -20°C to -80°C. Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

Reconstitution It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

GENE INFORMATION

Gene Name Shh sonic hedgehog [*Mus musculus*]

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

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