

Active Recombinant Human SHH protein(Met1-Gly197), His-tagged

Cat. No. SHH-7285H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human SHH (Q15465)(Met 1-Gly 197), that is Sonic hedgehog protein N-product, was expressed in HEK293, fused with a polyhistidine tag at the C-terminus.
Species	Human
Source	HEK293
ProteinLength	Met1-Gly197
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 2-10 µg/mL.
Molecular Mass	The recombinant human SHH (aa 1-197) consists of 185 amino acids and has a predicted molecular mass of 21 kDa. The apparent molecular mass of the protein is approximately 24 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	> 95 % 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 [Homo sapiens]

Official Symbol SHH

Synonyms SHH; sonic hedgehog; HLP3, HPE3, sonic hedgehog (Drosophila) homolog , sonic hedgehog homolog (Drosophila); sonic hedgehog protein; HHG1; MCOPCB5; SMMCI; TPT; TPTPS; sonic hedgehog homolog; HLP3; HPE3;

Gene ID 6469

mRNA Refseq NM_000193

Protein Refseq NP_000184

MIM 600725

UniProt ID Q15465

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