

Human SHH / Sonic hedgehog (aa 1-197, His Tag) recombinant protein



Catalog Number: 504207

General Information

Gene Name Synonym

HHG-1; Sonic hedgehog protein N-product; Sonic hedgehog protein C-product

Protein Construction

A DNA sequence encoding the amino acid sequence (Met 1-Gly 197) of human SHH (Q15465), that is Sonic hedgehog protein N-product, was fused with a polyhistidine tag at the C-terminus.

Organism

Human

Expression Host

Human Cells

QC Testing

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.

Purity

> 95 % as determined by SDS-PAGE

Endotoxin

< 1.0 EU per µg of the protein as determined by the LAL method

Stability

Samples are stable for up to twelve months from date of receipt at -70°C

Predicted N terminal

Cys 24

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.

Formulation

Lyophilized from sterile PBS, pH 7.4

1. 5 % trehalose and mannitol are added as protectants before lyophilization.
2. Please contact us for any concerns or special requirements.

Usage Guide

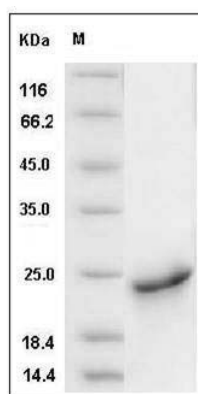
Storage

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

Adding sterile water, prepare a stock solution of 0.25 mg/ml. Concentration is measured by UV-Vis.

SDS-PAGE



Human SHH / Sonic hedgehog Protein (aa 1-197, His Tag) SDS-PAGE