# Human SHH / Sonic hedgehog (aa 198-462, His Tag) recombinant protein

Catalog Number: 501956



#### **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 (Cys 198-Ser 462) of human SHH (Q15465), that is Sonic hedgehog protein C-product, was fused with a polyhistidine tag at the C-terminus and a signal peptide at the N-terminus.

#### **Organism**

Human

# **Expression Host**

**Human Cells** 

# **QC Testing**

# **Activity**

Measured by its ability to induce alkaline phosphatase production by C3H10T1/2 mouse fibroblasts.

The  $ED_{50}$  for this effect is 12-24 µg/mL.

#### **Purity**

> 97 % as determined by SDS-PAGE

#### **Endotoxin**

< 1.0 EU per  $\mu g$  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 198

#### **Molecular Mass**

The recombinant human SHH( aa 198-462) consists of 276 amino acids and has a predicted molecular mass of 29 kDa. The apparent molecular mass of the protein is approximately 35 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**

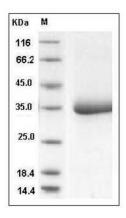
## **Storage**

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 198-462, His Tag) SDS-PAGE