

## Datasheet for ABIN6700557

## **Sonic Hedgehog Protein (SHH)**

# 2 Images



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#### Overview

Quantity:	25 μg
Target:	Sonic Hedgehog (SHH)
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Application:	SDS-PAGE (SDS)

### **Product Details**

Purpose:	Human Sonic Hedgehog Recombinant Protein
Purification:	Sonic Hedgehog purity was determined to be greater than 97% as determined by analysis by UV-Spectroscopy at 280nm and by reducing and non-reducing SDS-pAGE.
Purity:	97,00%
Endotoxin Level:	Measured by LAL is typically ≤ 1 EU/µg protein.
Biological Activity Comment:	The activity is measured by the dose-dependent induction of alkaline phosphatase production by C3H/10T1/2 (CCL-226) fibroblasts and is typically 0.8-1 µg/mL.

## Target Details

Target:	Sonic Hedgehog (SHH)
Alternative Name:	SHH (SHH Products)
Background:	Synonyms: HHG-1  Background: Sonic hedgehog (SHH) is a member of a small group of secreted proteins that are

### **Target Details**

UniProt:

Pathways:

essential for development in both vertebrates and invertebrates. Three mammalian hedgehog
genes (sonic, desert, Indian) share about 60 % homology and all signal via the same receptors.
Recombinant human SHH is a non-glycosylated protein, containing 175 amino acids, with a
molecular weight of 19.7 kDa. The Cys at position 25 has been substituted with Ile.
Q15465
Hedgehog Signaling, Dopaminergic Neurogenesis, Regulation of Muscle Cell Differentiation,

## Application Details

Application Notes:	Other: User Optimized
	Application_Note: Sonic Hedgehog Recombinant Protein has been tested by SDS-PAGE and
	biological activity and is suitable as a control for polyclonal or monoclonal anti-Sonic Hedgehog
	in immunological assays.
Comment:	Suggested_Applications: Cellular Assay
	Other_Performance_Data:
Restrictions:	For Research Use only

Lyophilized

Tube Formation, Skeletal Muscle Fiber Development

#### Handling

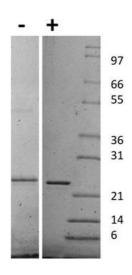
Format:

Reconstitution:	Reconstitution_Buffer: Restore with deionized water (or equivalent)  Reconstitution_Volume: 25 μL (25-250 μL)
Buffer:	Buffer: 0.01 M Sodium Phosphate, pH 7.5 Stabilizer: None
Preservative:	Without preservative
Storage:	-20 °C
Storage Comment:	Store vial at -20° C prior to restoration. Dilute only prior to immediate use. Maintain sterility. This product DOES NOT contain preservative. DO NOT VORTEX. We recommend adding a carrier protein such as HSA or BSA to 0.1% (i.e. 1.0 mg/mL). For best results aliquot contents and freeze at -20° C or colder. Avoid cycles of freezing and thawing. Centrifuge vial before each opening to dislodge contents from the cap and to clarify if contents are not clear after standing at room temperature.

**Expiry Date:** 

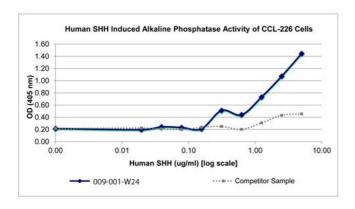
6 months

#### **Images**



### SDS-PAGE

**Image 1.** SDS-PAGE of Human Sonic Hedgehog Recombinant Protein SDS-PAGE of Human Sonic Hedgehog Recombinant Protein. Lane 1: 1  $\mu$ g Human SHH in non-reducing conditions . Lane 2: 1  $\mu$ g Human SHH in reducing conditions (+). Lane 3: Molecular weight marker. Human SHH has a predicted MW of 19.7 kDa.



#### **SDS-PAGE**

**Image 2.** SDS-PAGE of Human Sonic Hedgehog Recombinant Protein Bioactivity of Human Sonic Hedgehog Recombinant Protein. Serial dilutions of Human SHH, starting at 5 ug/mL, were added to with CCL-226 cells in the presence of 1 uM Retinoic Acid. Alkaline phosphatase was measured and the linear portion of the curve was us used to calculate the ED50. The ED50 of Human SHH is 1.2-1.8 ug/mL. The typical expected range is 0.8-1 ug/mL.