

9853 Pacific Heights Blvd. Suite D. San Diego, CA 92121, USA Tel: 858-263-4982

Email: info@abeomics.com

## 32-12311: Human Sonic Hedgehog

 Gene :
 SHH

 Gene ID :
 6469

 Uniprot ID :
 Q15465

Alternative Name: Sonic hedgehog protein, Â Â HHG-1, Shh unprocessed N-terminal signaling and C-terminal

autoprocessing domains

## **Description**

Source: Genetically modified E.coli.

Predicted MW:Â Monomer, 20.2 kDa (179 aa)

Sonic hedgehog (SHH) is a member of a small group of hedgehog secreted proteins that are essential for development in both vertebrates and invertebrates. There are three mammalian hedgehog homologues, sonic, desert, and indian, that signal via the Patched-1 and Patched-2 receptors. SHH is a morphogen that is essential during vertebrate organogenesis and adult stem cell division.

## **Product Info**

**Amount :**  $25 \mu g / 100 \mu g$ 

**Purification:** Reducing and Non-Reducing SDS PAGE at >= 95%

Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 10 mM sodium

**Content:** phosphate, pH 7.5

Sterile water at 0.1 mg/mL

**Storage condition :** Store at -20°C

Amino Acid: MIIGPGRGFG KRRHPKKLTP LAYKQFIPNV AEKTLGASGR YEGKISRNSE RFKELTPNYN PDIIFKDEEN

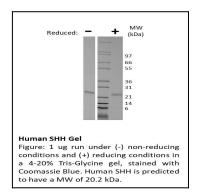
TGADRLMTQR CKDKLNALAI SVMNQWPGVK LRVTEGWDED GHHSEESLHY EGRALDITTS

DRDRSKYGML ARLAVEAGFD WVYYESKAHI HCSVKAENSV AAKSGGCFP

## **Application Note**

**Endotoxin:** Less than 0.1 ng/ $\tilde{A} \square \hat{A} \mu g$  (1 IEU/ $\tilde{A} \square \hat{A} \mu g$ ) as determined by LAL test.

Biological Activity was determined by CCL-226 cell proliferation at <=5 ug/mL; >=200 units/mg. Centrifuge vial before opening, Suspend the product by gently pipetting the above recommended solution down the sides of the vial. DO NOT VORTEX. Allow several minutes for complete reconstitution. For prolonged storage, dilute to working aliquots in a 0.1% BSA solution, store at  $-80\text{\AA}\Box\text{\AA}^\circ\text{C}$  and avoid repeat freeze thaws. Upon reconstitution, a small amount of visible precipitate can be expected. A 10% overfill has been added to the total material vialed to compensate for this loss.





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