

## 32-12312: Mouse Sonic Hedgehog

**Gene :** Shh  
**Gene ID :** 20423  
**Uniprot ID :** Q62226  
**Alternative Name :** Sonic hedgehog protein, HHG-1,  $\Delta\Delta$  Shh unprocessed N-terminal signaling and C-terminal autoprocessing domains  $\Delta\Delta$

### Description

**Source:** Genetically modified E.coli.

**Predicted MW:**  $\Delta$  Monomer, 19.8 kDa (176 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  $\geq$  95%  
**Content :** Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 10 mM sodium phosphate, pH 7.5  
Sterile water at 0.1 mg/mL  
**Storage condition :** Store at -20°C  
**Amino Acid :** MIIGPGRGFG KRRHPKKLTP LAYKQFIPNV AEKTLGASGR YEGKITRNSE RFKELTPNYN PDIIFKDEEN  
TGADRLMTQR CKDKLNALAI SVMNQWPGVK LRVTEGWDED GHHSEESLHY EGRAVDITTS  
DRDRSKYGML ARLAVEAGFD WVYYESKAHI HCSVKAENSV AAKSGG

### Application Note

**Endotoxin:** Less than 0.1 ng/ $\Delta\Delta$  $\mu$ g (1 IEU/ $\Delta\Delta$  $\mu$ g) as determined by LAL test.

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 $\Delta\Delta$ 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 vialled to compensate for this loss.  
 $\Delta\Delta$  $\Delta\Delta$



