

32-12311: Human Sonic Hedgehog

Gene : SHH
Gene ID : 6469
Uniprot ID : Q15465
Alternative Name : Sonic hedgehog protein, \AA HHG-1, Shh unprocessed N-terminal signaling and C-terminal autoprocessing domains

Description

Source: Genetically modified E.coli.

Predicted MW: \AA 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 μg / 100 μg
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 YEGKISRNSE RFKELTPNYN PDIIFKDEEN
TGADRLMTQR CKDKLNALAI SVMNQWPGVK LRVTEGWDED GHHSEESLHY EGRALDITTS
DRDRSKYGML ARLAVEAGFD WVYYESKAHI HCSVKAENSV AAKSGGCGFP

Application Note

Endotoxin: Less than 0.1 ng/ \AA μg (1 IEU/ \AA μg) as determined by LAL test.

Biological Activity was determined by CCL-226 cell proliferation at ≤ 5 $\mu\text{g/mL}$; ≥ 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°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 vial to compensate for this loss.



