

GFH168 Recombinant Human SHH

Description

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.

Length	179 aa
Molecular Weight	20.2 kDa
Source	E. coli
Accession Number	Q15465
Purity	≥95% determined by reducing and non-reducing SDS-PAGE

Specifications

Alternative Names	Sonic hedgehog, HHG-1, HHG1, HLP3, HPE3
Biological Activity	Human SHH is fully biologically active when compared to standard. The activity is determined by the dose-dependent induction of alkaline phosphatase production by C3H/10T1/2 fibroblasts and it is typically 750 ng/ml.
Endotoxin Level	≤1.00 EU/μg as measured by kinetic LAL
Formulation	Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 10 mM sodium phosphate, pH 7.5
AA Sequence	MIIGPGRGFG KRRHPKKLTP LAYKQFIPNV AEKTLGASGR YEGKISRNSR RFKELTPNYN PDIIFKDEEN TGADRLMTQR CKDKLNALAI SVMNQWPGVK LRVTEGWDED GHHSEESLHY EGRALDITTS DRDRSKYGML ARLAVEAGFD WVYYESKAHI HCSVKAENSV AAKSGGCFP

Preparation and Storage

Reconstitution	Centrifuge vial before opening. When reconstituting the product, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution. It is recommended to reconstitute the lyophilized product with sterile water at 0.1 mg/ml, which can be further diluted into other aqueous solutions.
Stability and Storage	12 months from date of receipt when stored at -20°C to -80°C as supplied. 1 month when stored at 4°C after reconstituting as directed. 3 months when stored at -20°C to -80°C after reconstituting as directed.