

## Active Recombinant Human SHH Protein

Cat. No. SHH-240H Lot. No. (See product label)

### SPECIFICATION

|                         |   |
|-------------------------|---|
| <b>Product Overview</b> | Recombinant Human SHH Protein without tag was expressed in E. coli.   |
| <b>Species</b>          | Human   |
| <b>Source</b>           | E.coli  |
| <b>Description</b>      | 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. |
| <b>Bio-activity</b>     | CCL-226 cell proliferation, $\leq 5 \mu\text{g/mL}$ ; $\geq 200$ units/mg   |
| <b>Molecular Mass</b>   | Monomer, 20.2 kDa (179 aa)  |
| <b>AA Sequence</b>      | MIIGPGRGFGKRRHPKLTPLAYKQFIPNVAEKT LGASGRYEGKISRNSERFKELTPN<br>YNPDIIFKDEENTGADRLMTQRCKDKLNALISVMNQWPGVKLRVTEGWDEDGHHS<br>EESLHYEGRALDITTSRDRSKYGMLARLAVEAGFDWVYYESKAHIHCSVKAENSV<br>AAKSGGCFP   |
| <b>Endotoxin</b>        | $\leq 1$ EUs/ $\mu\text{g}$ , Kinetic LAL   |
| <b>Purity</b>           | $\geq 95\%$ , Reducing and Non-Reducing SDS PAGE  |

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

|                       |   |
|-----------------------|---|
| <b>Stability</b>      | 12 months from date of receipt when stored at -20 to -80 centigrade as supplied.<br>1 month when stored at 4 centigrade after reconstituting as directed.<br>3 months when stored at -20 to -80 centigrade after reconstituting as directed.  |
| <b>Storage</b>        | Storage Prior to Reconstitution: -20 centigrade   |
| <b>Storage Buffer</b> | Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 10 mM sodium phosphate, pH 7.5   |
| <b>Reconstitution</b> | Sterile water at 0.1 mg/mL  |
| <b>Shipping</b>       | Room temperature  |
| <b>Instructions</b>   | 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 centigrade and avoid repeat freeze thaws. |

## GENE INFORMATION

|                        |   |
|------------------------|---|
| <b>Gene Name</b>       | SHH sonic hedgehog [ <i>Homo sapiens</i> (human) ]  |
| <b>Official Symbol</b> | SHH   |
| <b>Synonyms</b>        | SHH; sonic hedgehog; HLP3, HPE3, sonic hedgehog ( <i>Drosophila</i> ) homolog , sonic hedgehog homolog ( <i>Drosophila</i> ); sonic hedgehog protein; HHG1; MCOPCB5; SMMCI; TPT; TPTPS; sonic hedgehog homolog; HLP3; HPE3; |
| <b>Gene ID</b>         | 6469  |
| <b>mRNA Refseq</b>     | NM_000193   |

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA



**Protein Refseq** NP\_000184

**MIM** 600725

**UniProt ID** Q15465

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA