

## SHH, Human, Recombinant

货号 : PCK215

### 产品信息

|      |                                    |
|------|------------------------------------|
| 别名   | Sonic Hedgehog Protein; SHH; HHG-1 |
| 物种   | Human                              |
| 表达宿主 | E.coli                             |
| 序列信息 | Cys24-Gly197                       |
| 检索号  | Q15465                             |
| 分子量  | 19.69 kDa                          |

### 产品特性

|     |                                                                                                                                                                                                                                 |
|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 纯度  | >95% as determined by reducing SDS-PAGE.                                                                                                                                                                                        |
| 内毒素 | <1.0 EU per µg as determined by LAL test.                                                                                                                                                                                       |
| 保存  | Lyophilized protein should be stored at -5~-20°C, stable for one year after receipt. Reconstituted protein solution can be stored at 2-8°C for 2-7 days. Aliquots of reconstituted samples are stable at -5~-20°C for 3 months. |
| 运输  | Ambient temperature or ice pack.                                                                                                                                                                                                |
| 制剂  | Lyophilized from a 0.2 µm filtered solution of 20mM PB, 100mM NaCl, 1mM DTT, pH 7.5.                                                                                                                                            |



## 复融

Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100 µg/ml. Dissolve the lyophilized protein in distilled water. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

## 背景介绍

Sonic Hedgehog Homolog (SHH) belongs to a three- Protein family called hedgehog. The other two family members are Indian Hedgehog (IHH) and Desert Hedgehog (DHH). Hedgehog Proteins are key signaling molecules in embryonic development. SHH is expressed in various embryonic tissues and plays critical roles in regulating the patterning of many systems, such as limbs and brain. SHH also plays an important role in adult, including the division of adult stem cells and the development of certain cancers and other diseases. Human SHH is expressed as a 45kDa precursor, and undergoes a series of processing during secretion. After the removal of the signal peptide, a protease within the C-terminal domain catalyzes the cleavage of SHH into a 20 kDa N-terminal signaling domain (SHH-N) and a 25 kDa C-terminal domain (SHH-C). SHH-N has the “all signaling” capability. SHH-N binds to the 12 pass transmembrane Protein Patched (Ptc) on cell surface, which releases the repression of the activity of Smoothened (Smo), a G- Protein coupled Receptor, by Ptc.

## SDS-PAGE

