普诺赛[®] Procell system

SHH, Human, Recombinant

Cat. No.: GPCK215

产品信息

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有效期12 months

产品特性

内毒素 (EU/μg) < 0.1

保存 Lyophilized protein should be stored at -5~-20°C, stable for one year after receipt.

cell system

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 20 mM PB, 100 mM NaCl, 1 mM DTT, pH 7.5.

复溶 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 sterile 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.

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