

A DOUBLE-FACED PROTEIN: THE SONIC HEDGEHOG PROTEIN

IN EMBRYONIC GROWTH AND CANCER DEVELOPMENT

Human Recombinant Sonic Hedgehog (Shh) is a member of a tiny group of secreted proteins and the most well-known function is crucial for embryonic development, including cell differentiation, proliferation, and selection of T cells. In fact, there are three unique ligands, Sonic Hedgehog (Shh), Indian hedgehog, and Desert hedgehog, which can trigger the hedgehog(HH) pathway in mammals. One of the intricate signaling pathways that regulates or controls the process of cellular development is the Sonic Hedgehog pathway.



Pancreatic carcinomas

Cat.	Product	Cat.	Product
C01181	Human Sonic Hedgehog (C24II), His-SUMO Tag	C01012	IL-10, Human
C01183	Human Sonic Hedgehog (C24II), Tag Free, HEK293	C01008	IL-6, Human
C01064	BMP-4, Human	C01088	TGFβ-1, Human
C01100	FGF-10, Human		



Organ development - Lung

The hedgehog is an important morphogen that controls a variety of cellular functions. It can elicit tissue-specific reactions that eventually aid in the development of a fully developed organism. The tree-like structure of human lung, which is formed by repeated tip splitting, is known as branching morphogenesis.



Chemoattraction proliferation

Cancer development

The Shh signaling affects the immunological microenvironment of both malignant and non-malignant tissues in a variety of intricate and interesting ways.

