

Recombinant Rat Sonic hedgehog N-product/SHH Protein

RPCB1411



Product Information

Product SKU:	RPCB1411	Gene ID:	29499	Size:	10µg
Tag:	C-His	Reactivity:	Rat		

Additional Information

Expression Host:	-	Swissprot:	Q63673
Purity:	-		

Protein Information

Background: Sonic Hedgehog Protein (SHH, VHH-1) belongs to hedgehog protein family which includes Indian Hh, and Desert Hh. Hh family is involved in the cell fate and patterning during embryonic development, homeostasis, and adult tissue renewal . Similar to other member in the family, SHH binds to the patched (PTC) cell surface receptor, releasing the signal transducer Smoothed (Smo) to transmit the Hh signal into the cell and activate transcription of the target gene . Precursor SHH is autocatalytically cleaved into two subunits, N-terminal and C-terminal products. Soluble N-terminal product is involved in the signaling activity, while C-product displays an autoproteolysis activity on the precursor and a cholesterol transferase activity on the N-terminal product. C-terminal product attaches a cholesterol moiety to the N-terminal product, preventing N-terminal product diffusion within the developing embryo . A defect in SHH has been linked in holoprosencephaly type 3 (HPE3), in which developing forebrain fails to separate into right and left hemispheres, and ocular coloboma .

Protein Description: High quality, high purity and low endotoxin recombinant Recombinant Rat Sonic hedgehog N-product/SHH Protein , tested reactivity in HEK293 cells and has been validated in SDS-PAGE.100% guaranteed.

Endotoxin: <0.1EU/µg of the protein by LAL method.

Formulation: Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4.

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Storage:

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt. After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.