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Sonic Hedgehog Protein (SHH) (AA 24-197) (His tag)



Image



Publication



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Overview

Quantity:	50 μg
Target:	Sonic Hedgehog (SHH)
Protein Characteristics:	AA 24-197
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Sonic Hedgehog protein is labelled with His tag.

Product Details

Sequence:	AA 24-197
Characteristics:	This protein carries a polyhistidine tag at the C-terminus. The protein has a calculated MW of 20.4 kDa. The protein migrates as 22 kDa under reducing (R) condition (SDS-PAGE).
Purity:	>95 % as determined by SDS-PAGE.
Sterility:	0.22 μm filtered
Endotoxin Level:	Less than 1.0 EU per μg by the LAL method.

Target Details

Target:	Sonic Hedgehog (SHH)
Alternative Name:	Sonic Hedgehog (SHH Products)
Background:	Sonic hedgehog protein (SHH) is also known as HHG-1, which belongs to the hedgehog family.

SHH is expressed in fetal intestine, liver, lung, and kidney and not expressed in adult tissues. Sonic hedgehog protein can be cleavage into sonic hedgehog protein N-product and sonic hedgehog protein C-product by autolysis. SHH binds to the patched (PTC) receptor, which functions in association with smoothened (SMO), to activate the transcription of target genes. In the absence of SHH, PTC represses the constitutive signaling activity of SMO. Also regulates another target, the gli oncogene. Intercellular signal essential for a variety of patterning events during development. The C-terminal domain displays an autoproteolysis activity and a cholesterol transferase activity. The N-product is the active species in both local and long-range signaling, whereas the C-product has no signaling activity.

Molecular Weight: 20.4 kDa

NCBI Accession: NP_000184

Pathways: Hedgehog Signaling, Dopaminergic Neurogenesis, Regulation of Muscle Cell Differentiation,

Tube Formation, Skeletal Muscle Fiber Development

Application Details

Restrictions: For Research Use only

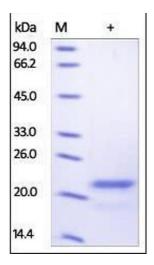
Handling

Format:	Lyophilized
Buffer:	PBS, pH 7.4
Handling Advice:	Please avoid repeated freeze-thaw cycles.
Storage:	-20 °C
Storage Comment:	No activity loss was observed after storage at: In lyophilized state for 1 year (4 °C-8 °C), After reconstitution under sterile conditions for 1 month (4 °C-8 °C) or 3 months (-20 °C to -70 °C).

Publications

Product cited in:

Mettler Izquierdo, Varela, Park, Collarini, Lu, Pramanick, Rucker, Lopalco, Etches, Harriman: "High-efficiency antibody discovery achieved with multiplexed microscopy." in: **Microscopy (Oxford, England)**, Vol. 65, Issue 4, pp. 341-52, (2018) (PubMed).



SDS-PAGE

Image 1. Human Sonic Hedgehog, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.