

Datasheet for ABIN7198797

Sonic Hedgehog Protein (SHH) (His tag)[Go to Product page](#)**1** Image

Overview

Quantity:	100 µg
Target:	Sonic Hedgehog (SHH)
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This Sonic Hedgehog protein is labelled with His tag.

Product Details

Purpose:	Recombinant Mouse Sonic Hedgehog/SHH Protein (His Tag)(Active)
Sequence:	Met1-Gly198
Characteristics:	A DNA sequence encoding the mouse SHH (Q62226) (Met1-Gly198) was expressed with a C-terminal polyhistidine tag.
Purity:	> 90 % as determined by SDS-PAGE
Endotoxin Level:	< 1.0 EU per µg of the protein as determined by the LAL method.
Biological Activity Comment:	Measured by its ability to induce alkaline phosphatase production by C3H10T1/2 mouse embryonic fibroblast cells. Nakamura, T. et al. (1997) Biochem. Biophys. Res. Commun.237:465. The ED50 for this effect is typically 5-40 µg/mL.

Target Details

Target:	Sonic Hedgehog (SHH)
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Target Details

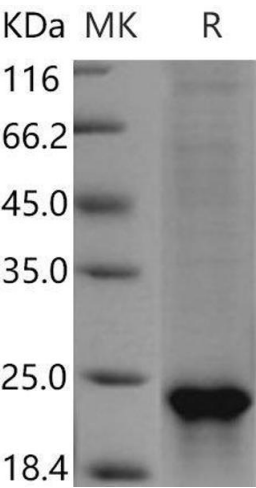
Alternative Name:	SHH (SHH Products)
Background:	<p>Background: Sonic HedgeHog, also known as sonic hedgehog protein, belongs to the hedgehog family. It cannot be detected in adult tissues while can be found in fetal intestine, liver, lung, and kidney. Sonic HedgeHog is a protein that is vital in guiding the early embryo. It has been associated as the major inductive signal in patterning of the ventral neural tube, the anterior-posterior limb axis, and the ventral somites. Sonic HedgeHog intercellular signal is essential for a various patterning events during development: signal produced by the notochord that induces ventral cell fate in the neural tube and somites, and the polarizing signal for patterning of the anterior-posterior axis of the developing limb bud. Sonic HedgeHog binds to the patched receptor, which functions in association with smoothened, to activate the transcription of target genes. In the absence of sonic HedgeHog, patched receptor represses the constitutive signaling activity of smoothened. Sonic HedgeHog also regulates another factor, the gli oncogene. Defects in sonic hedgehog can cause microphthalmia isolated with coloboma type 5, triphalangeal thumb-polysyndactyly syndrome and holoprosencephaly type 3.</p> <p>Synonym: Sonic Hedgehog Protein, SHH, HHG-1, SHH,9530036O11Rik, Dsh, Hhg1, Hx, Hxl3, M10008</p>
Molecular Weight:	21 kDa
UniProt:	Q62226
Pathways:	Hedgehog Signaling , Dopaminergic Neurogenesis , Regulation of Muscle Cell Differentiation , Tube Formation , Skeletal Muscle Fiber Development

Application Details

Restrictions:	For Research Use only
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Handling

Format:	Lyophilized
Reconstitution:	Please refer to the printed manual for detailed information.
Buffer:	Lyophilized from sterile PBS, pH 7.4
Storage:	4 °C, -20 °C, -80 °C
Storage Comment:	<p>Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C.</p> <p>Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.</p>



Western Blotting

Image 1.