



[Go to Product page](#)

Datasheet for ABIN2018370

Sonic Hedgehog Protein (SHH) (AA 25-198)

Overview

Quantity: 50 µg

Target: Sonic Hedgehog (SHH)

Protein Characteristics: AA 25-198

Origin: Mouse

Source: CHO Cells

Protein Type: Recombinant

Biological Activity: Active

Product Details

Characteristics: ED50 < 1 µg/mL, measured by its ability to induce alkaline phosphatase production by CCL-226 cells, corresponding to a specific activity of >1 x 10³ units/mg.

Purity: > 95 % as analyzed by SDS-PAGE and HPLC.

Endotoxin Level: < 0.2 EU/µg, determined by LAL method.

Target Details

Target: Sonic Hedgehog (SHH)

Abstract: [SHH Products](#)

Background: Members of the Hedgehog (Hh) family are highly conserved proteins which are widely represented throughout the animal kingdom. The three known mammalian Hh proteins, Sonic (Shh), Desert (Dhh) and Indian (Ihh) are structurally related and share a high degree of amino-acid sequence identity (e.g., Shh and Ihh are 93 % identical). The biologically active form of Hh

Target Details

molecules is obtained by autocatalytic cleavage of their precursor proteins and corresponds to approximately the N-terminal one half of the precursor molecule. Although Hh proteins have unique expression patterns and distinct biological roles within their respective regions of secretion, they use the same signaling pathway and can substitute for each other in experimental systems. Recombinant E. coli derived Human Sonic HedgeHog is a 20.0 kDa protein consisting of 176 amino acid residues, including an N-terminal Ile-Val-Ile sequence substituted for the natural occurring chemically modified Cys residue.

Synonyms: SHH, HHG-1

Molecular Weight:	20 kDa, observed by non-reducing SDS-PAGE.
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

Handling

Format:	Lyophilized
Reconstitution:	Reconstituted in ddH ₂ O or PBS at 100 µg/mL.
Buffer:	Lyophilized after extensive dialysis against PBS.
Storage:	-80 °C
Storage Comment:	Lyophilized recombinant Murine Sonic Hedgehog (SHH) remains stable up to 6 months at -80 °C from date of receipt. Upon reconstitution, rmSHH should be stable up to 1 week at 4 °C or up to 2 months at -20 °C.
Expiry Date:	6 months