

Datasheet for ABIN7320899

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

Overview

Quantity:	50 µg
Target:	Sonic Hedgehog (SHH)
Origin:	Mouse
Source:	Human Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Sonic Hedgehog protein is labelled with His tag.

Product Details

Purpose:	Recombinant Mouse Sonic Hedgehog/SHH (C-6His)
Sequence:	Cys25--Gly198
Characteristics:	Recombinant Mouse Sonic Hedgehog is produced by our Mammalian expression system and the target gene encoding Cys25-Gly198 is expressed with a 6His tag at the C-terminus.
Purity:	>95 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.

Target Details

Target:	Sonic Hedgehog (SHH)
Alternative Name:	SHH (SHH Products)
Background:	Background: Mouse Sonic Hedgehog Homolog (SHH) belongs to a three-protein family called Hedgehog. The other two family members are Indian Hedgehog (IHH) and Desert Hedgehog (DHH). Hedgehog proteins are key signaling molecules in embryonic development. SHH is

Target Details

expressed in various embryonic tissues and plays critical roles in regulating the patterning of many systems, such as limbs and brain. SHH also plays an important role in adult, including the division of adult stem cells and the development of certain cancers and other diseases. Mouse Shh is synthesized as a 437 aa precursor that contains a 24 aa signal sequence and a 413 aa mature region. The mature region is autocatalytically processed into a nonglycosylated, 20 kDa, 174 aa N-terminal fragment (Shh-N), and a catalytic-processing, glycosylated, 34 kDa, 239 aa C-terminal fragment. The 20 kDa Shh-N fragment is the core of the active hedgehog molecule. Mouse Shh-N is 99 %, 98 %, and 100 % aa identical to human, rat and gerbil Shh-N, respectively. Synonym: Sonic Hedgehog Protein, SHH, HHG-1, SHH

Molecular Weight: 20.4 kDa

UniProt: [Q62226](#)

Pathways: [Hedgehog Signaling](#), [Dopaminergic Neurogenesis](#), [Regulation of Muscle Cell Differentiation](#), [Tube Formation](#), [Skeletal Muscle Fiber Development](#)

Application Details

Comment: 22 kDa

Restrictions: For Research Use only

Handling

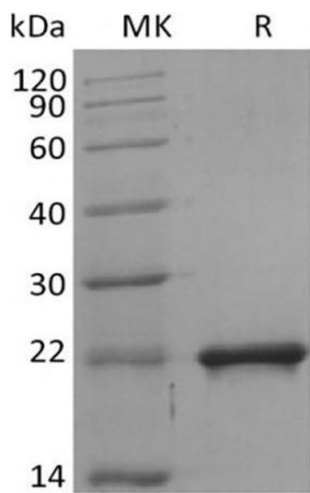
Format: Lyophilized

Reconstitution: Please refer to the printed manual for detailed information.

Buffer: Lyophilized from a 0.2 µm filtered solution of PBS, 5 % Trehalose, pH 7.4.

Storage: 4 °C, -20 °C, -80 °C

Storage Comment: Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. 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.



Western Blotting

Image 1.