

Catalog Number: HZ-1306

Data Sheet





Animal Component-Free

Human cell expressed

Tag-Free

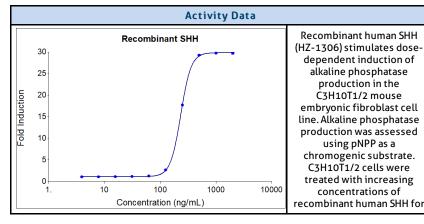
Endotoxin Free

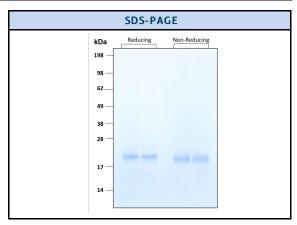
Product Description

Animal-free Recombinant Human SHH (Sonic Hedgehog) protein is the orthologue of drosophila hedgehog (Hh) and plays a critical role in vertebrate limb development. SHH gene encodes for a 45 kDa protein that undergoes autoproteolysis activated by its own C-terminal domain. Furthermore, the C-terminal domain also carries out cholesterol transferase activity. This auto-cleavage results in the formation of a 174 amino acid N-terminal product with covalently linked cholesterol moiety and a palmitoyl modification. The presence of the cholesterol and palmitoyl moieties is required for the activity of the mature SHH protein. These modifications are found in SHH derived from human cells, but are absent in bacterially expressed SHH. The N-terminal (active) form of SHH shares 98% aa homology to mouse, rat, canine, porcine and chicken SHH. It has been associated with tissue regeneration following injury and development of certain cancers in adults.

Alternative Names	HHG 1, HHG1, HLP3, HPE3, MCOPCB5, SHH, SMMCI, Sonic hedgehog protein, TPT, TPTPS
Source Human Embryonic Kidney cells (HEK293). HEK293-derived Sonic Hedgehog (SHH) prot	

Specifications				
Test	Method	Specification		
Activity	The ability to induce alkaline phosphatase production in C3H10T1/2 mouse embryonic fibroblast cells.	Typically ≤350 ng/mL EC50		
Molecular Mass	SDS-PAGE	19-22 kDa		
Purity	SDS-PAGE	>90%		
Endotoxin	LAL	<1.0 EU/ μ g		





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Preparation				
Shipping Temperature ambient temperature				
Formulation	10mM Tris pH 7.4 + 100mM NaCl + 1% CHAPS, See Certificate of Analysis for details			
Reconstitution	Briefly centrifuge the vial before opening. It is recommended to reconstitute the protein in sterile water containing 0.1% endotoxin-free recombinant human serum albumin (HSA).			

	Product Form	Temperature Conditions	Storage Time (From Date of Receipt)
	Lyophilized	-20°C to -80°C	Until Expiry Date
Stability and Storage	Lyophilized	Room Temperature	2 weeks
_	Reconstituted as per CofA	-20°C to -80°C	6 months
	Reconstituted as per CofA	4°C	1 week
		Avoid repeated freeze-thaw cycles.	

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