

Overview

Synonyms	SHH, HHG-1
Description	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 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 <i>E. coli</i> 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.
Species	Mouse
Source	CHO
Biological Activity	ED ₅₀ < 1 µg/ml, measured by its ability to induce alkaline phosphatase production by CCL-226 cells, corresponding to a specific activity of >1 x 10 ³ units/mg.
Sequence	CGPGRGFGKR RHPKLLTPLA YKQFIPNVAE KTLGASGRYE GKITRNSERF KELTPNYNPD IIFKDEENTG ADRLMTQRCK DKLNALAISV MNQWPGVKLR VTEGWDEDGH HSEESLHYEG RAVDITTSDR DRSKYGMLAR LAVEAGFDWV YYESKAHIHC SVKAENSVAA KSGG

Properties

Measured Molecular Weight	20 kDa, observed by non-reducing SDS-PAGE.
Purity	> 95% as analyzed by SDS-PAGE and HPLC.
Formulation	Lyophilized after extensive dialysis against PBS.
Reconstitution	Reconstituted in ddH ₂ O or PBS at 100 µg/ml.
Endotoxin Level	< 0.2 EU/µg, determined by LAL method.
Storage	Lyophilized recombinant Murine Sonic Hedgehog (SHH) remains stable up to 6 months at lower than -70°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.
Note	For research use only

India Contact:

Life Technologies (India) Pvt. Ltd.

306, Aggarwal City Mall, Opposite M2K Pitampura,
Delhi – 110034 (INDIA).

Mobile: +91-9810521400, Ph: +91-11-42208000

Email: customerservice@lifetechindia.com

Web: www.lifetechindia.com