

## SHH Protein, Human (C24IVI)

Cat. No.:	HY-P7408
Synonyms:	rHuSonic Hedgehog, C24IVI; HHG1
Species:	Human
Source:	E. coli
Accession:	Q15465 (G25-G197)
Gene ID:	6469
Molecular Weight:	Approximately 19.8 kDa

### PROPERTIES

AA Sequence	<p>G P G R G F G K R R    H P K K L T P L A Y    K Q F I P N V A E K    T L G A S G R Y E G</p> <p>K I S R N S E R F K    E L T P N Y N P D I    I F K D E E N T G A    D R L M T Q R C K D</p> <p>K L N A L A I S V M    N Q W P G V K L R V    T E G W D E D G H H    S E E S L H Y E G R</p> <p>A V D I T T S D R D    R S K Y G M L A R L    A V E A G F D W V Y    Y E S K A H I H C S</p> <p>V K A E N S V A A K    S G G</p>
Biological Activity	The ED <sub>50</sub> is <2 µg/mL as measured by C3H/10T1/2 (CCL-226) cells, corresponding to a specific activity of >500 units/mg.
Appearance	Lyophilized powder
Formulation	Lyophilized after extensive dialysis against PBS.
Endotoxin Level	<0.2 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

Background	Sonic Hedgehog (SHH) is a secreted factor. The protein is heavily modified through cleavage and posttranslational modification and its release from producing cells can also be modulated by interactions with Dispatched, Scube2, and heparan sulfate proteoglycan <sup>[1][2]</sup> .
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## REFERENCES

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- [1]. Garcia ADR, et al. The Elegance of Sonic Hedgehog: Emerging Novel Functions for a Classic Morphogen. J Neurosci. 2018 Oct 31;38(44):9338-9345.
- [2]. Gomes DC, et al. Sonic hedgehog signaling is active in human adrenal cortex development and deregulated in adrenocortical tumors. J Clin Endocrinol Metab. 2014 Jul;99(7):E1209-16.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA