

SHH Protein, Mouse

Cat. No.:	HY-P7290
Synonyms:	rMuShh; HHG-1; ShhNC
Species:	Mouse
Source:	E. coli
Accession:	Q62226 (C25-G198, C25I-V-I)
Gene ID:	20423
Molecular Weight:	Approximately 19.8 kDa

PROPERTIES

AA Sequence	<pre> I V I 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 K I T 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 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 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 V K A E N S V A A K S G G </pre>
Biological Activity	The ED ₅₀ is <1 µg/mL as measured by C3H/10T1/2 (CCL-226) cells, corresponding to a specific activity of >1.0 × 10 ³ units/mg.
Appearance	Lyophilized powder
Formulation	Lyophilized after extensive dialysis against PBS or 50 mM Tris-HCL, 300 mM NaCl, pH 7.4.
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 ₂ 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 morphogenic factor that actively orchestrates many aspects of cerebellar development and maturation ^[1] . Sonic hedgehog (Shh) plays a critical role in post-natal skeletal muscle regeneration. Sonic hedgehog (Shh) is a crucial morphogen that regulates epithelial-mesenchymal interactions during embryogenesis. In adults, the Shh pathway has been shown to be up-regulated following skeletal muscle and myocardium ischemia, suggesting that the embryonic Shh pathway can be recruited ^[2] .
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REFERENCES

- [1]. De Luca A, et al. Sonic hedgehog patterning during cerebellar development. Cell Mol Life Sci. 2016 Jan; 73(2):291-303.
- [2]. Zeng Q, et al. Protective Effects of Sonic Hedgehog Against Ischemia/Reperfusion Injury in Mouse Skeletal Muscle via AKT/mTOR/p70S6K Signaling. Cell Physiol Biochem. 2017;43(5):1813-1828.
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Caution: Product has not been fully validated for medical applications. For research use only.

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