

SHH Protein, Mouse (CHO)

Cat. No.:	HY-P7288
Synonyms:	rMuShh; HHG-1; ShhNC
Species:	Mouse
Source:	CHO
Accession:	Q62226 (C25-G198)
Gene ID:	20423
Molecular Weight:	Approximately 20 kDa

PROPERTIES

AA Sequence	CGPGRGFGRK RHPKKLTPLA YKQFIPNVAE KTLGASGRYE GKITRNSERF KELTPNYNPD IIFKDEENTG ADRLMTQRCK DKLNALAISV MNQWPGVKLR VTEGWDEDGH HSEESLHYEG RAVDITTS DR DRSKYGMLAR LAVEAGFDWV YYESKAHIHC SVKAENSVAA KSGG
Biological Activity	The ED ₅₀ is <1 µg/mL as measured by 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.
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 or PBS.
Storage & Stability	Stored at -20°C. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer. 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	<p>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].</p>
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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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