SHH Protein, Mouse (HEK293)

Cat. No.:	HY-P701100
Synonyms:	rMuShh; HHG-1; ShhNC
Species:	Mouse
Source:	HEK293
Accession:	Q62226 (C25-G198)
Gene ID:	20423
Molecular Weight:	Approximately 20 kDa

PROPERTIES

AA Sequence	C 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
Biological Activity	Measured by its ability to induce alkaline phosphatase production by C3H10T1/2 mouse embryonic fibroblast cells. The ED_{50} for this effect is 0.1110 μg/mL, corresponding to a specific activity is 9009.009 units/mg.
Appearance	Lyophilized powder.
Formulation	Lyophilized a 0.2 μm filtered solution of 20mM PB, 150mM NaCl, pH 7.4.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O. 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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