

DHH Protein, Mouse

Cat. No.:	HY-P7339
Synonyms:	rMuDHH; DHH; HHG-3
Species:	Mouse
Source:	E. coli
Accession:	Q61488 (C23-G198, C23I)
Gene ID:	13363
Molecular Weight:	Approximately 20.1 kDa

PROPERTIES

AA Sequence	<p>I G P G R G P V G R R R Y V R K Q L V P L L Y K Q F V P S M P E R T L G A S G P</p> <p>A E G R V T R G S E R F R D L V P N Y N P D I I F K D E E N S G A D R L M T E R</p> <p>C K E R V N A L A I A V M N M W P G V R L R V T E G W D E D G H H A Q D S L H Y</p> <p>E G R A L D I T T S D R D R N K Y G L L A R L A V E A G F D W V Y Y E S R N H I</p> <p>H V S V K A D N S L A V R A G G</p>
Biological Activity	Measured by its ability to induce alkaline phosphatase production by MC3T3-E1 mouse embryo osteoblast precursor cells. The ED ₅₀ for this effect is 6.643 µg/mL, corresponding to a specific activity is 150.534 units/mg.
Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.2 µm filtered solution of 20 mM PB, 150 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	Desert hedgehog (DHH) belongs to the hedgehog gene family that act as secreted intercellular signal transducers. DHH is an essential morphogen for normal testicular development and function in both mice and humans but is not present in the avian lineage. Like other hedgehog proteins, DHH signals through the patched (PTCH) receptors 1 and 2. The receptors PTCH1 and PTCH2 are highly conserved mediators of hedgehog signalling in both the developing and adult marsupial
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gonads. Together these findings indicate DHH is an essential therian mammal-specific morphogen in gonadal development and gametogenesis^[1].

REFERENCES

[1]. O'Hara WA, et al. Desert hedgehog is a mammal-specific gene expressed during testicular and ovarian development in a marsupial. BMC Dev Biol. 2011 Dec 1;11:72.

Caution: Product has not been fully validated for medical applications. For research use only.

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