

Recombinant Human DHH, His-tagged

Cat. No. DHH-11968H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human DHH protein, fused to His-tag, was expressed in E.coli and purified by Ni-sepharose.
Species	Human
Source	E.coli
ProteinLength	C-term-346a.a.
Description	This gene encodes a member of the hedgehog family. The hedgehog gene family encodes signaling molecules that play an important role in regulating morphogenesis. This protein is predicted to be made as a precursor that is autocatalytically cleaved; the N-terminal portion is soluble and contains the signalling activity while the C-terminal portion is involved in precursor processing. More importantly, the C-terminal product covalently attaches a cholesterol moiety to the N-terminal product, restricting the N-terminal product to the cell surface and preventing it from freely diffusing throughout the organism. Defects in this protein have been associated with partial gonadal dysgenesis (PGD) accompanied by minifascicular polyneuropathy. This protein may be involved in both male gonadal differentiation and perineurial development.
Storage	The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.
Storage Buffer	1M PBS (58mM Na ₂ HPO ₄ , 17mM NaH ₂ PO ₄ , 68mM NaCl, pH8.) added with 300mM

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Imidazole and 0.7% Sarcosyl, 15%glycerol.

GENE INFORMATION

Gene Name [DHH desert hedgehog \[Homo sapiens \]](#)

Official Symbol DHH

Synonyms DHH; desert hedgehog; desert hedgehog (Drosophila) homolog; desert hedgehog protein; HHG 3; MGC35145; mutant desert hedgehog; desert hedgehog homolog; GDXYM; HHG-3; SRXY7;

Gene ID [50846](#)

mRNA Refseq [NM_021044](#)

Protein Refseq [NP_066382](#)

MIM [605423](#)

UniProt ID [O43323](#)

Chromosome Location 12q13.1

Pathway Class B/2 (Secretin family receptors), organism-specific biosystem; GPCR ligand binding, organism-specific biosystem; Hedgehog Signaling Pathway, organism-specific biosystem; Hedgehog signaling pathway, organism-specific biosystem; Hedgehog signaling pathway, conserved biosystem; Signal Transduction, organism-specific biosystem; Signaling by GPCR, organism-specific biosystem;

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Function

calcium ion binding; peptidase activity; protein binding; zinc ion binding;

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