

Recombinant Human desert hedgehog, His-tagged

Cat. No. DHH-267H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	DHH (C23II), 23-198aa, Human, His tag, E.coli
Species	Human
Source	E.coli
ProteinLength	23-198 a.a.
Description	DHH is 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. Recombinant human DHH protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Form	Liquid. In 20mM Tris-HCl buffer (pH 7.5) containing 0.15M NaCl, 10% glycerol, 1mM DTT
Molecular Mass	22.4kDa (201aa) confirmed by MALDI-TOF

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSMIIGPGR GPVGRRRYAR KQLVPLLYKQ FVPGVPERTL GASGPAEGRV ARGSERFRDL VPNYNPDIIF KDEENSGADR LMTERCKERV NALAIAVMMN WPGVRLRVTE GWDEDGHHAQ DSLHYEGRAL DITTSRDRN KYGLLARLAV EAGFDWVYYE SRNHVHVSVK ADNSLAVRAG G
Purity	>90% by SDS - PAGE
Storage	Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.
Concentration	0.25 mg/ml (determined by Bradford assay)
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

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

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