

# Recombinant human Desert Hedgehog/Dhh N-terminus protein

Catalog Number: DHH0901

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

23-198aa

### UniProt No.

O43323

### NCBI Accession No.

NP\_066382

### Alternative Names

desert hedgehog preproprotein, Drosophila, HHG-3, MGC35145, Desert hedgehog protein N-product, DHH, desert hedgehog preproprotein Desert hedgehog, Desert hedgehog (Drosophila) homolog, Desert hedgehog homolog (Drosophila), Desert hedgehog protein precursor.

## PRODUCT SPECIFICATION

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### Molecular Weight

22 kDa (197aa) confirmed by MALDI-TOF

### Concentration

1mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM MES buffer (pH 5.5) containing 0.5mM DTT, 20% glycerol

### Purity

> 95% by SDS-PAGE

### Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

### Tag

His-Tag

### Application

SDS-PAGE

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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### Description

DHH belongs to the hedgehog family. The C-terminal domain displays an autoproteolysis activity and a cholesterol transferase activity. The N- terminal domain is the active species in both local and long-range

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signaling, whereas the C-terminal domain has no signaling activity. This protein is produced by Sertoli cells and may be involved in both male gonadal differentiation and perineurial development. Defects in this protein have been associated with partial gonadal dysgenesis (PGD) accompanied by minifascicular polyneuropathy. Recombinant DHH protein was expressed in *E. coli* and purified by using conventional chromatography techniques.

## Amino acid Sequence

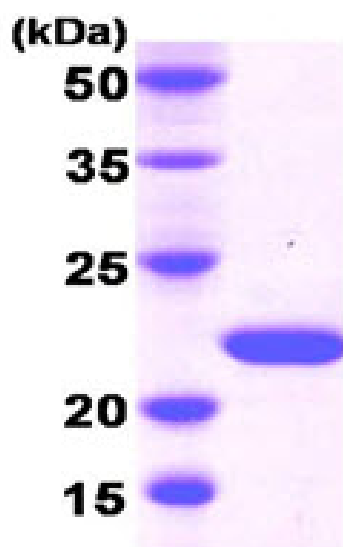
MGSSHHHHHH SSGLVPRGSH MCGPGRGPVG RRRYARKQLV PLYKQFVPG VPERTLGASG PAEGRVARGS ERFRLVLPNY  
NPDIIFKDEE NSGADRLMTE RCKERVNALA IAVMMNWPGV RLRVTEGWDE DGHHAQDSLH YEGRALDITT SDRDRNKYGL  
LARLAVEAGF DWVYYESRNH VHVSVKADNS LAVRAGG

## General References

Chen YJ, et al. (2007). *Cell Cycle*. 6(15):1826-30  
Van den Brink GR., et al. (2007). *Physiol Rev*. 87(4):1343-75

## DATA

### SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3ug)