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## Product Data Sheet

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Product Name: DHH (C23II) Mouse  
 Cat. No.: GP20889  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	Desert hedgehog protein; DHH; HHG-3; C78960.		
Amino Acid Sequence	IIGPGRGPVG RRRYVRKQLV PLYKQFVPS MPERTLGASG PAEGRVTRGS ERFRDLVPTY NPDIIFKDEE NSGADRLMTE RCKERVNALA IAVMNMWPGV RLRVTEGWDE DGHHAQDSLH YEGRALDITT SDRDRNKYGL LARLAVEAGF DWVYYESRNH IHVSVKADNS LAVRAGG.		
Solubility	It is recommended to reconstitute the lyophilized DHH (C23II) in sterile 18M-cm H <sub>2</sub> O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	Lyophilized from a 0.2µm filtered concentrated solution in PBS, pH7.4, 1mM DTT and 0.05% Tween-80.		

### Introduction

DHH is part of the Hedgehog family which encodes signaling molecules that are involved in regulating morphogenesis. DHH protein is 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. Additionally, 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 DHH protein have been associated with partial gonadal dysgenesis (PGD) accompanied by minifascicular polyneuropathy. DHH plays a role both male gonadal differentiation and perineurial development. DHH plays a role in intercellular signaling which is essential for a variety of patterning events during development. DHH functions as a spermatocyte survival factor in the testes & is essential for testes development.

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

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### Biological Activity

The ED50 as determined by its ability to induce alkaline phosphatase production by murine MC3T3-E1 cells is 5-20 µg/ml.

### Stability

Lyophilized DHH (C23II) although stable at room temperature for 3 weeks, should be stored desiccated below -18°C . Upon reconstitution DHH (C23II) should be stored at 4°C between 2-7 days and for future use below -18°C . For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

### Background

DHH (C23II) Mouse Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 177 amino acids and having a molecular mass of 20kDa. The DHH (C23II) is purified by proprietary chromatographic techniques.

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