
Product Data Sheet

Product Name: DHH Human
 Cat. No.: GP20886
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	HHG-3; Desert Hedgehog homolog; MGC35145; Desert hedgehog protein; DHH.		
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MCGPGRGPVG RRRYARKQLV PLYKQFVPG VPERTLGASG PAEGRVARGS ERFRDLVPTY NPDIIFKDEE NSGADRLMTE RCKERVNALA IAVMNMWPGV RLRVTEGWDE DGHHAQDSLH YEGRALDITT SDRDRNKYGL LARLAVEAGF DWVYYESRNH VHVSVKADNS LAVRAGG.		
Formulation	DHH solution containing 20mM MES pH-5.5, 0.5mM DTT and 20% glycerol.		

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.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer

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

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periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze thaw cycles.

Background

DHH Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 197 amino acids (23-198) and having a molecular mass of 22 kDa. DHH is fused to His-tag (20 a.a.) at N-terminus and is purified by proprietary chromatographic techniques.

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