9051 Mira Mesa Blvd, #910094
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DHH (C23II) Human

Desert Hedgehog (C23II) Human Recombinant
CYK0131

Product Overview

Name	DHH (C23II) Human
Description	
Desert Hedgehog (C23II) Human Recombinant	
Accession (Primary)	O43323
Synonyms	
HHG-3, Desert Hedgehog homolog, MGC35145, Desert hedgehog protein, DHH.	
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.	
Source	
Escherichia Coli.	
Physical Appearance	
Sterile Filtered White lyophilized (freeze-dried) powder.	
Formulation	
Lyophilized from a 0.2 μm filtered concentrated solution in 1×PBS, pH 7.4.	
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.	
Purity	
Greater than 95.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.	

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Amino acid sequence

IIGPGRGPVG RRRYARKQLV PLLYKQFVPG VPERTLGASG PAEGRVARGS ERFRDLVPNY NPDIIFKDEE NSGADRLMTE RCKERVNALA IAVMNMWPGV RLRVTEGWDE DGHHAQDSLH YEGRALDITT SDRDRNKYGL LARLAVEAGF DWVYYESRNH VHVSVKADNS LAVRAGG.

Biological Activity

The Biological Activity was determined by its ability to induce alkaline phosphatase production by C3H/10T1/2 (CCL-226) cells. The expected ED 50 for this effect is 15-45 µg/ml.

Solubility

It is recommended to reconstitute the lyophilized DHH (C23II) in sterile 18M-cm H 2 O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Precautions

DHH (C23II) Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (O43323)