

DHH Human

Description: 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.

Catalog #: CYP5-474

For research use only.

Synonyms: HHG-3, Desert Hedgehog homolog, MGC35145, Desert hedgehog protein, DHH.

Source: Escherichia Coli.

Physical Appearance: Sterile filtered colorless solution.

Amino Acid Sequence: MGSSHHHHHH SSGLVPRGSH MCGPGRGPVG RRRYARKQLV
PLLYKQFVPG VPERTLGASG PAEGRVARGS ERFRDLVPNY NPDIIKDEE NSGADRLMTE
RCKERVNALA IAVNMNWPVG RLRVTEGWDE DGHHAQDSLH YEGRALDITT SDRDRNKYGL
LARLAVEAGF DWVYYESRNH VHVSVKADNS LAVRAGG.

Purity: Greater than 95.0% as determined by SDS-PAGE.

Formulation:

DHH solution containing 20mM MES pH-5.5, 0.5mM DTT and 20% glycerol.

Stability:

DHH Human Recombinant although stable at 4°C for 1 week, should be stored desiccated below -18°C. Please prevent freeze thaw cycles.

Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. They may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

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.

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