## 32-1715: DHH (C23II) His Recombinant Protein

**Alternative Name :** HHG-3,Desert Hedgehog homolog,MGC35145,Desert hedgehog protein,DHH.

### Description

Source : Escherichia Coli. DHH (C23II) His Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 201 amino acids (23-198) and having a molecular mass of 22.4kDa.DHH (C23II) His is fused to a 24 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques. 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.

### Product Info

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| **Amount :** | 25 µg |
| **Purification :** | Greater than 90% as determined by SDS-PAGE. |
| **Content :** | The DHH (C23II) His solution (0.25mg/ml) contains 20mM Tris-HCl buffer (pH 7.5), 0.15M NaCl, 1mM DTT and 10% glycerol. |
| **Storage condition :** | Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Avoid multiple freeze-thaw cycles. |
| **Amino Acid :** | MGSSHHHHHH SSGLVPRGSH MGSMIIGPGR GPVGRRRYAR KQLVPLLYKQ FVPGVPERTL GASGPAEGRV ARGSERFRDL VPNYNPDIIF KDEENSGADR LMTERCKERV NALAIAVMNM WPGVRLRVTE GWDEDGHHAQ DSLHYEGRAL DITTSDRDRN KYGLLARLAV EAGFDWVYYE SRNHVHVSVK ADNSLAVRAG G |