

Product information

DHH(C23II), 23-198aa

Human, His-tagged, Recombinant, *E.coli*

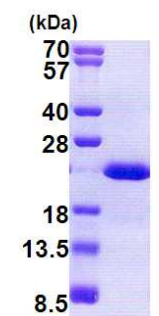
Cat. No. IBATGP2221

Full name: Desert hedgehog protein

NCBI Accession No.: NP_066382

Synonyms: desert hedgehog, GDXYM, HHG-3, SRXY7

Description: DHH is a member of the hedgehog family. The hedgehog gene family encodes signaling molecules that play an important role in regulating morphogenesis. This protein is predicted to be made as 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. More importantly, 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 this protein have been associated with partial gonadal dysgenesis (PGD) accompanied by minifascicular polyneuropathy. This protein may be involved in both male gonadal differentiation and perineurial development. Recombinant human DHH protein, fused to His-tag at N-terminus, was expressed in *E.coli* and purified by using conventional chromatography techniques.

<p>Form: Liquid. In 20mM Tris-HCl buffer (pH 7.5) containing 0.15M NaCl, 10% glycerol, 1mM DTT</p> <p>Molecular Weight: 22.4kDa (201aa) confirmed by MALDI-TOF</p> <p>Purity: > 90% by SDS - PAGE</p> <p>Concentration: 0.25 mg/ml (determined by Bradford assay)</p> <p>Endotoxin Level: < 1.0 EU per 1 µg of protein (determined by LAL method)</p>	 <p>15% SDS-PAGE (3µg)</p>
<p>Sequences of amino acids:</p> <p><u>MGSSHHHHHH</u> <u>SSGLVPRGSH</u> <u>MGSM</u> I I GPGR GPVGRRRYAR KQLVPLLYKQ FVPGVPERL GASGPAEGRV ARGSEFRDL VPNYNPD I I F KDEENSGADR LMTERCKERV NALAI AVNMN WPGVRLRVTE GWDEGDGHAQ DSLHYEGRAL DITTSRDRN KYGLLARLAV EAGFDWVYVE SRNHVHVSVK ADNSLAVRAG G</p>	

General references:

Chen YJ, et al. (2007). *Cell Cycle*. 6(15):1826-30.

Van den Brink GR., et al. (2007). *Physiol Rev*. 87(4):1343-75

Storage: Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles

For research use only. This product is not intended or approved for human, diagnostics or veterinary use.