

DHH (C23II), 23-198aa, Human, His tag, E.coli

Cat.NO.: TP01872

3th Edition

Synonyms:Desert hedgehog protein, 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 Nterminus, was expressed in E.coli and purified by using conventional chromatography techniques.

Form:Liquid. In 20mM Tris-HCl buffer (pH 7.5) containing 0.15M NaCl, 10% glycerol, 1mM DTT

Molecular Weight:22.4kDa (201aa) confirmed by MALDI-TOF

Sequences:

MGSSHHHHHSSGLVPRGSHMGSMIIGPGRGPVGRRRYARKQLVPLLYKQFVPGVPERTLGASGPAEGRVARGS
ERFRDLVPNYNPDIIFKDEENSGADRLMTERCKERVNALAIIVMNMWPGVRLRVTEGWDEDGHHAQDSLHYEGR
ALDITTSRDRNKYGLLARLAVEAGFDWVYYESRNVHVSVKADNSLAVRAGG

Purity:> 95% by HPLC

Concentration:0.25 mg/ml (determined by Bradford assay)

Endotoxin Level:<1.0 EU per 1 ug of protein (determined by LAL method)

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.