Recombinant human Desert Hedgehog/Dhh N-terminus protein

Catalog Number: DHH0901

PRODUCT INFORMATION

Expression system
E.coli

Domain
23-198aa

UniProt No.
O43323

NCBI Accession No.
NP_066382

Alternative Names
desert hedgehog preproprotein, Drosophila, HHG-3, MGC35145, Desert hedgehog protein N-product, DHH, desert hedgehog preproprotein Desert hedgehog, Desert hedgehog (Drosophila) homolog, Desert hedgehog homolog (Drosophila), Desert hedgehog protein precursor.

PRODUCT SPECIFICATION

Molecular Weight
22 kDa (197aa) confirmed by MALDI-TOF

Concentration
1mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM MES buffer (pH 5.5) containing 0.5mM DTT, 20% glycerol

Purity
> 95% by SDS-PAGE

Endotoxin level
< 1 EU per 1ug of protein (determined by LAL method)

Tag
His-Tag

Application
SDS-PAGE

Storage Condition
Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description
DHH belongs to the hedgehog family. The C-terminal domain displays an autoproteolysis activity and a cholesterol transferase activity. The N- terminal domain is the active species in both local and long-range

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signaling, whereas the C-terminal domain has no signaling activity. This protein is produced by Sertoli cells and may be involved in both male gonadal differentiation and perineurial development. Defects in this protein have been associated with partial gonadal dysgenesis (PGD) accompanied by minifascicular polyneuropathy. Recombinant DHH protein was expressed in E. coli and purified by using conventional chromatography techniques.

Amino acid Sequence

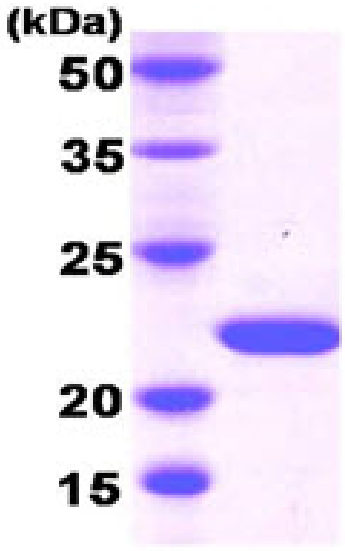
MGSSHHHHHH SSGLVPRGSH MCGPGRGPVG RRRYARKQLV PLLYKQFVPG VPERTLGASG PAEGRVARGS ERFRDLVPNY NPDIIFKDEE NSGADRLMTE RCKERVNALA IAVMNMWPGV RLRVTEGWDE DGHHAQDSLH YEGRALDITT SDRDRNKYGL LARLAVEAGF DWVYYESRNH VHVSVKADNS LAVRAGG

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

DATA

SDS-PAGE



15% SDS-PAGE (3ug)

3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.