

Desert HedgeHog Active Protein | DHH active protein

Recombinant Human Desert HedgeHog (C23II)

CATALOG #
AAA38175

HOST
E Coli

PRODUCT SYNONYMS

Desert HedgeHog; Recombinant Human Desert HedgeHog (C23II); DHH (C23II) Human; Desert Hedgehog (C23II) Human Recombinant; HHG-3; Desert Hedgehog homolog; MGC35145; Desert hedgehog protein; DHH; DHH (C23II); DHH active protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	Greater than 95.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.
Form/Format	Lyophilized from a 0.2 um filtered concentrated solution in 1xPBS, pH 7.4. Sterile Filtered White lyophilized (freeze-dried) powder.
Sequence	IIGPGRGPVG RRRYARKQLV PLYKQFVPG VPERTLGASG PAEGRVARGS ERFRDLVPNY NPDIIKFDEE NSGADRLMTE RCKERVNALA IAVNMNWPVG RLRVTEGWDE DGHHAQDSLH YEGRALDITT SDRDRNKYGL LARLAVEAGF DWVYYESRNH VHVSVKADNS LAVRAGG
Sequence Length	396
Solubility	It is recommended to reconstitute the lyophilized DHH (C23II) in sterile 18M-cm H2O not less than 100 ug/ml, which can then be further diluted to other aqueous solutions.
Biological Activity	The Biological Activity was determined by its ability to induce alkaline phosphatase production by C3H/10T1/2 (CCL-226) cells. The expected ED50 for this effect is 15-45 ug/ml.
Preparation and Storage	Lyophilized DHH (C23II) although stable at room temperature for 3 weeks, should be stored desiccated below -18 degree C. Upon reconstitution DHH (C23II) should be stored at 4 degree C between 2-7 days and for future use below -18 degree C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Please prevent freeze-thaw cycles.

ADDITIONAL INFORMATION

Related Product Information for DHH active protein	Description: DHH (C23II) Human Recombinant produced in E Coli is a single, non-glycosylated polypeptide chain containing 177 amino acids and having a molecular mass of 19.9kDa. The DHH (C23II) is purified by proprietary chromatographic techniques. 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.
Product Categories/Family for DHH active protein	Cytokines and Growth Factors; Cytokines; Hedgehog Protein

NCBI AND UNIPROT INFORMATION

NCBI GI #	19482158
NCBI GeneID	50846
NCBI Accession #	NP_066382.1
NCBI GenBank Nucleotide #	NM_021044.2
UniProt Accession #	O43323; Q15794
Molecular Weight	43,577 Da
NCBI Official Full Name	desert hedgehog protein preproprotein
NCBI Official Synonym Full Names	desert hedgehog
NCBI Official Symbol	DHH
NCBI Official Synonym Symbols	GDXYM; HHG-3; SRXY7
NCBI Protein Information	desert hedgehog protein; desert hedgehog homolog; mutant desert hedgehog
UniProt Protein Name	Desert hedgehog protein
UniProt Gene Name	DHH
UniProt Synonym Gene Names	DHH
UniProt Entry Name	DHH_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/e-coli-dhh-active-protein/desert-hedgehog/38175>