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Datasheet for ABIN2017734

desert Hedgehog Protein (AA 23-198, Cys23Ilelle-Mutant)

Overview

Quantity:	50 µg
Target:	desert Hedgehog (DHH)
Protein Characteristics:	AA 23-198, Cys23Ilelle-Mutant
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Biological Activity:	Active

Product Details

Characteristics:	ED50 < 10 µg/, measured by its ability to induce alkaline phosphatase production by CCL-226 cells, corresponding to a specific activity of > 100 units/mg. AA 23-198 (Cys23Ilelle), with and without an N-terminal Met
Purity:	> 95 % by SDS-PAGE and HPLC analyses.
Endotoxin Level:	< 0.2 EU/µg, determined by LAL method.

Target Details

Target:	desert Hedgehog (DHH)
Abstract:	DHH Products
Target Type:	Species
Background:	Desert hedgehog protein (DHH) is a member of the Hedgehog family which encodes signaling molecules that play an important role in regulating morphogenesis. It is predicted to be made

Target Details

as a precursor that is auto-catalytically cleaved, the N-terminal portion is soluble and contains the signaling 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. DHH may be involved in both male gonadal differentiation and perineurial development. DHH binds both Patched and Patched 2 as well as Hedgehog interacting protein (Hip). It induces steroidogenic factor 1(SF1), which is instrumental in promoting Leydig cell differentiation. It also promotes the deposition of basal lamina surrounding seminiferous tubules. Recombinant human Desert hedgehog (DHH) produced in Escherichia Coli is a single non-glycosylated polypeptide chain containing 177 amino acids. A fully biologically active molecule, rhDHH has a molecular mass of around 20 kDa analyzed by reducing SDS-PAGE.

Synonyms: DHH, Human

Molecular Weight: 20 kDa, observed by reducing SDS-PAGE.

Pathways: [Hedgehog Signaling](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Reconstituted in ddH2O at 100 µg/mL.

Buffer: Lyophilized after extensive dialysis against PBS.

Storage: -80 °C

Storage Comment: Lyophilized recombinant Human Hedgehog homolog(rhDHH) remains stable up to 6 months at -80 °C from date of receipt. Upon reconstitution, rhDHH remains stable up to 2 weeks at 4 °C or up to 3 months at -20 °C.

Expiry Date: 6 months