

## **PrimeGene Technical Data Sheet**

Catalog Number: 601-40A

**Source:** Escherichia coli.

**Molecular Weight:** Approximately 19.9 kDa, a single non-glycosylated polypeptide chain containing 177 amino acids.

**Quantity:**  $5\mu g/25\mu g/1000\mu g$ 

AA Sequence: IIGPGRGPVG RRRYARKQLV PLLYKQFVPG VPERTLGASG PAEGRVARGS

ERFRDLVPNY NPDIIFKDEE NSGADRLMTE RCKERVNALA IAVMNMWPGV RLRVTEGWDE DGHHAQDSLH YEGRALDITT SDRDRNKYGL LARLAVEAGF

DWVYYESRNH VHVSVKADNS LAVRAGG

**Purity:** > 96 % by SDS-PAGE and HPLC analyses.

**Biological Activity:** Fully biologically active when compared to standard. The ED<sub>50</sub> as determined by its ability to induce

alkaline phosphatase production by C3H10T1/2(CCL-226) cells is 15-45 µg/ml.

**Physical Appearance:** Sterile Filtered White lyophilized (freeze-dried) powder.

Formulation: Lyophilized from a 0.2 µm filtered concentrated solution in 10mM PB, pH 6.0, 300mM NaCl.

**Endotoxin:** Less than 1 EU/μg of rHuDHH C23II as determined by LAL method.

**Reconstitution:** We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the

bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/ml. Stock solutions should be apportioned into working aliquots and

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stored at  $\leq$  -20 °C. Further dilutions should be made in appropriate buffered solutions.

**Shipping:** The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature

recommended below.

Stability & Storage: Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

12 months from date of receipt, -20 to -70 °C as supplied.

• 1 month, 2 to 8 °C under sterile conditions after reconstitution.

• 3 months, -20 to -70 °C under sterile conditions after reconstitution.

Usage: This material is offered by Shanghai PrimeGene Bio-Tech for research, laboratory or further

evaluation purposes. NOT FOR HUMAN USE.

## Human Desert Hedgehog Cys23IleIle

Desert hedgehog protein (DHH), also named HHG-3, is belonging to the hedgehog (Hh) family that are highly conserved proteins which are widely represented throughout the animal kingdom. This protein is predicted to be made as a precursor that is autocatalytically cleaved and the biologically active form of Hh molecules corresponds to approximately the N-terminal one half of the precursor molecule. The N-terminal portion is soluble and contains the signaling activity while the C-terminal portion is involved in 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. DHH is essential for a variety of patterning events during development as intercellular signal. It may function as a spermatocyte survival factor in the testes and play an important role in testes development. Mature human DHH shares 97 % amino acid sequence identity with murine DHH.

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