

PrimeGene™ Recombinant Murine Desert Hedgehog Cys23IleIle
a biotechne brand (rMuDHH C23II)

PrimeGene Technical Data Sheet

Catalog Number:	621-40A
Source:	<i>Escherichia coli</i> .
Molecular Weight:	Approximately 20.0 kDa, a single non-glycosylated polypeptide chain containing 177 amino acids.
Quantity:	5µg/25µg/1000µg
AA Sequence:	IIGPGRGPVG RRRYVRKQLV PLYKQFVPS MPERTLGASG PAEGRVTRGS ERFRDLVPNY NPDIIKFDEE NSGADRLMTE RCKERVNALA IAVMNMWPGV RLRVTEGWDE DGHHAQDSLH YEGRALDITT SDRDRNKYGL LARLAVEAGF DWVYYESRNH IHVSVKADNS LAVRAGG
Purity:	> 98 % by SDS-PAGE and HPLC analyses.
Biological Activity:	Fully biologically active when compared to standard. The ED ₅₀ as determined by its ability to induce alkaline phosphatase production by murine MC3T3-E1 cells is 5-20 µg/ml.
Physical Appearance:	Sterile Filtered White lyophilized (freeze-dried) powder.
Formulation:	Lyophilized from a 0.2 µm filtered concentrated solution in PBS, pH 7.4, 1 mM DTT, 0.05 % Tween-80.
Endotoxin:	Less than 0.1 EU/µg of rMuDHH 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 stored at ≤ -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. <ul style="list-style-type: none">● 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.

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Desert hedgehog protein also known as HHG-3 is a member of the hedgehog family which is encoded by the DHH gene. It is expressed in adult testes but not expressed in limb buds. DHH may be as a precursor that is auto-catalytically cleaved; the N-terminal portion is soluble and contains the signalling activity while the C-terminal portion is involved in precursor processing. Besides, DHH may have a function as a spermatocyte survival factor in the testes. Within the N-terminal peptide, murine DHH shares 97 % and 100 % amino acid (a.a.) sequence identity with human and rat DHH, respectively.