

ChemWhat Recombinant Murine Desert Hedgehog Cys23IleIle
A brand under Watson
(rMuDHH C23II)

ChemWhat Technical Data Sheet (TDS)

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| 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 NPDIIFKDEE 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: | ChemWhat Limited in UK offers this branded product for research, development 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.