

# Mouse SHH Recombinant Protein



RPPB0904

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## Product Information    Protein Information

**Product SKU:**

RPPB0904

**Accession:**

Q62226

**Host:**

Escherichia Coli.

**Protein description:**

Sonic Hedgehog Recombinant Mouse produced in E.Coli is a single, non-glycosylated polypeptide chain containing 176 amino acids and having a molecular mass of 19.8 kDa. The Mouse Sonic Hedgehog is 99% homologous to the human gene. Cysteine at position 25 has been substituted with Ile. The Sonic Hedgehog is purified by proprietary chromatographic techniques.

**Appearance:**

Sterile Filtered White lyophilized (freeze-dried) powder.

**Synonyms:**

SHH, HHG-1, HHG1, Sonic hedgehog protein.

**Formulation:**

Lyophilized from a concentrated (1mg/ml) solution in water containing 10mM Na<sub>2</sub>PO<sub>4</sub> pH-7.5.

**Purity:**

Greater than 97.0% as determined by SDS-PAGE.

**Solubility:**

It is recommended to reconstitute the lyophilized Sonic Hedgehog in sterile 18MΩ-cm H<sub>2</sub>O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.

**Stability:**

Lyophilized Mouse Sonic Hedgehog although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution Sonic Hedgehog should be stored at 4°C between 2-7 days and for future use below -18°C. Please prevent freeze-thaw cycles.

**Amino Acid Sequence:**

MIIGPGRGFG KRRHPKKLTP LAYKQFIPNV AEKTLGASGR YEGKITRNSE RFKELTPNYN PDIIFKDEEN  
TGADRLMTQR CKDKLNALAI SVMNQWPGVK LRVTEGWDED GHHSEESLHY EGRAVDITTS DRDRSKYGML  
ARLAVEAGFD WVYYESKAHI HCSVKAENSV AAKSGG.

**Biological Activity:**

Determined by the dose-dependent induction of alkaline phosphatase production by C3H/10T1/2 (CCL-226) fibroblasts and is typically 0.48-0.72 µg/ml.